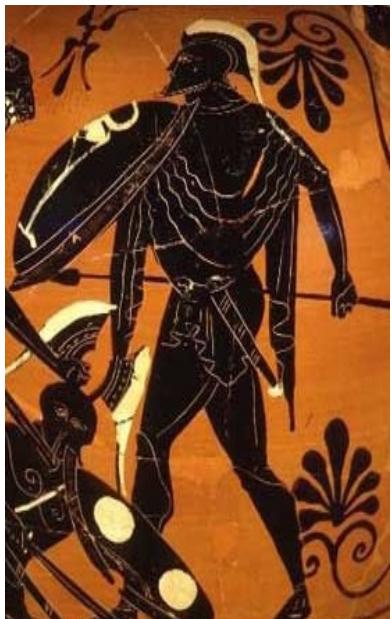
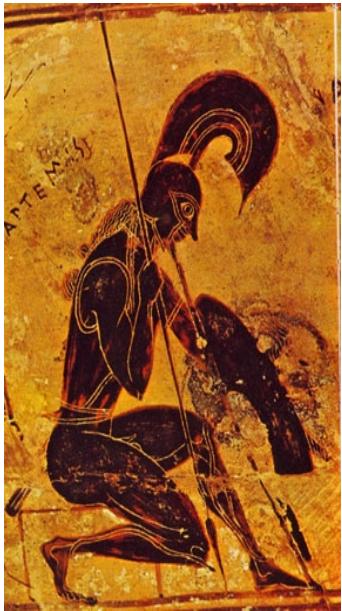




**MARS**





**Al-Qahira** - Arabic, Indonesian, Malay

**Ares** – Greek

**Auqakuh** - Quechua (Inca)

**Bahram** – Persian

**Harmakhis** - Ancient Egyptian

**Her Desher** – Egyptian

**Hrad** – Armenian

**Huo Hsing** – Chinese

**Kasei** – Japanese

**Labou** – French

**Ma'adim** – Hebrew

**Maja** – Nepali

**Mamers** – Oscan

**Mangala** – Sanskrit

**Marte** – Spanish

**Mawrth** – Welsh

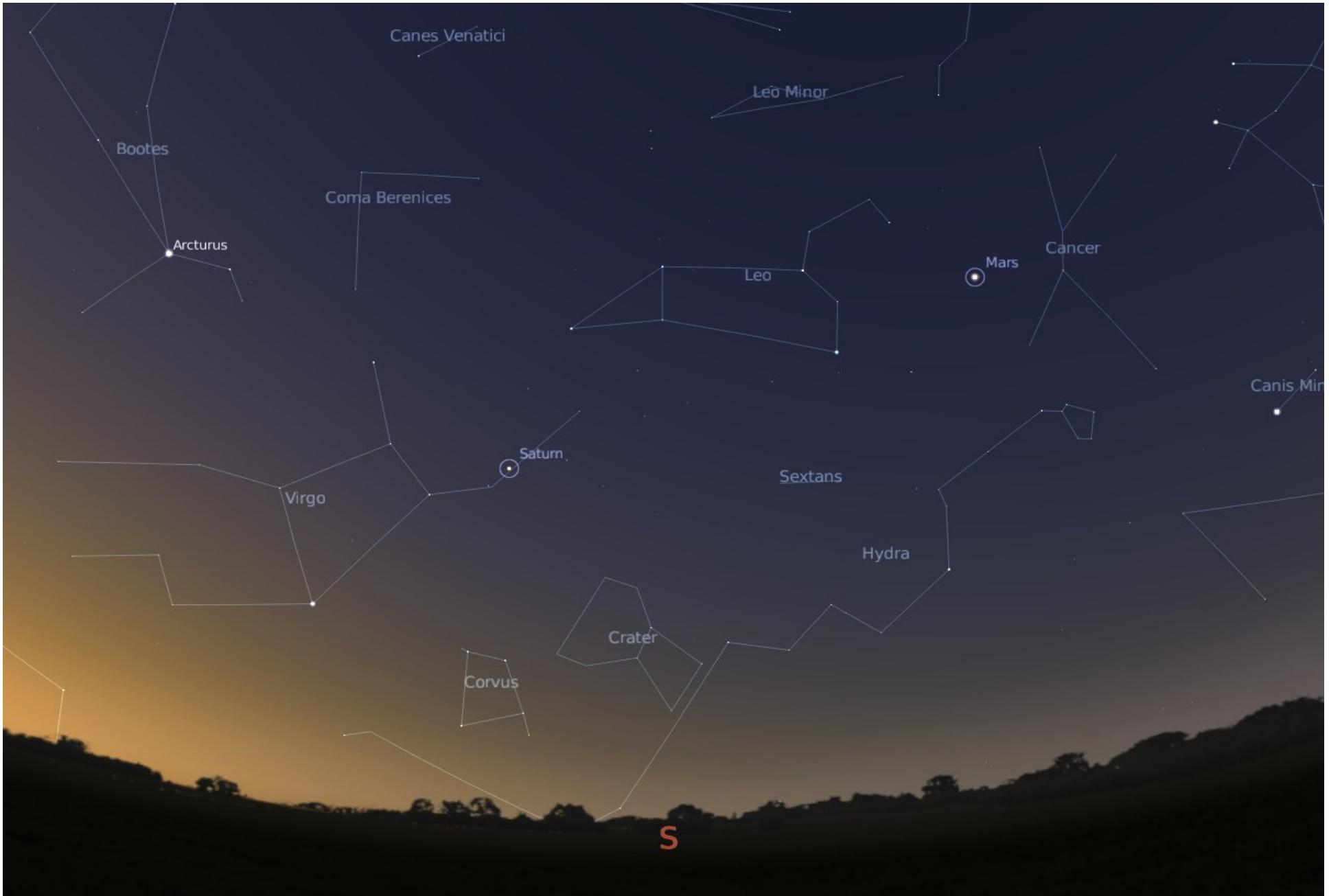
**Nirgal** – Babylonian

**Shalbatana** – Akkadian

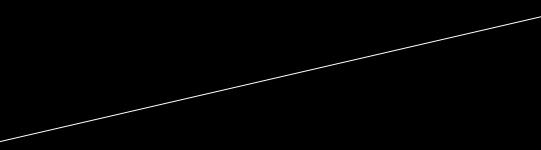
**Simud** – Sumerian

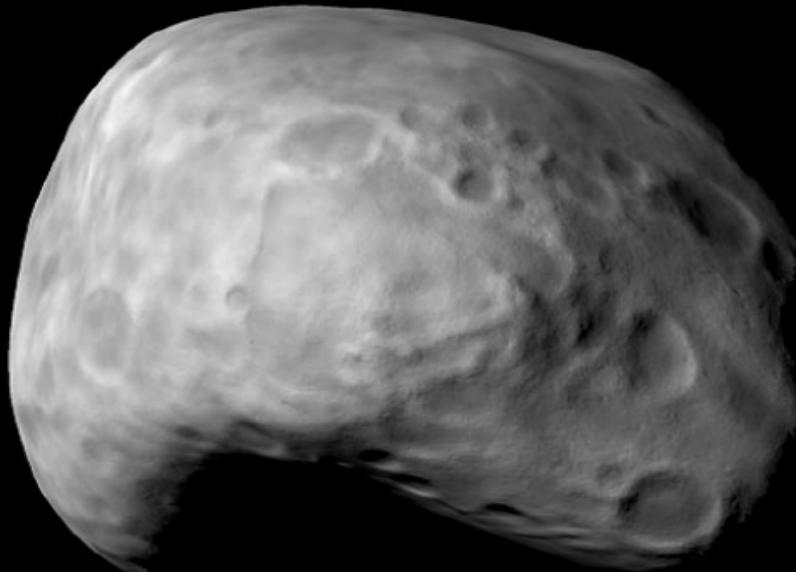
**Tiu** - Old English (West Germanic) - *root word for 'Tuesday'*









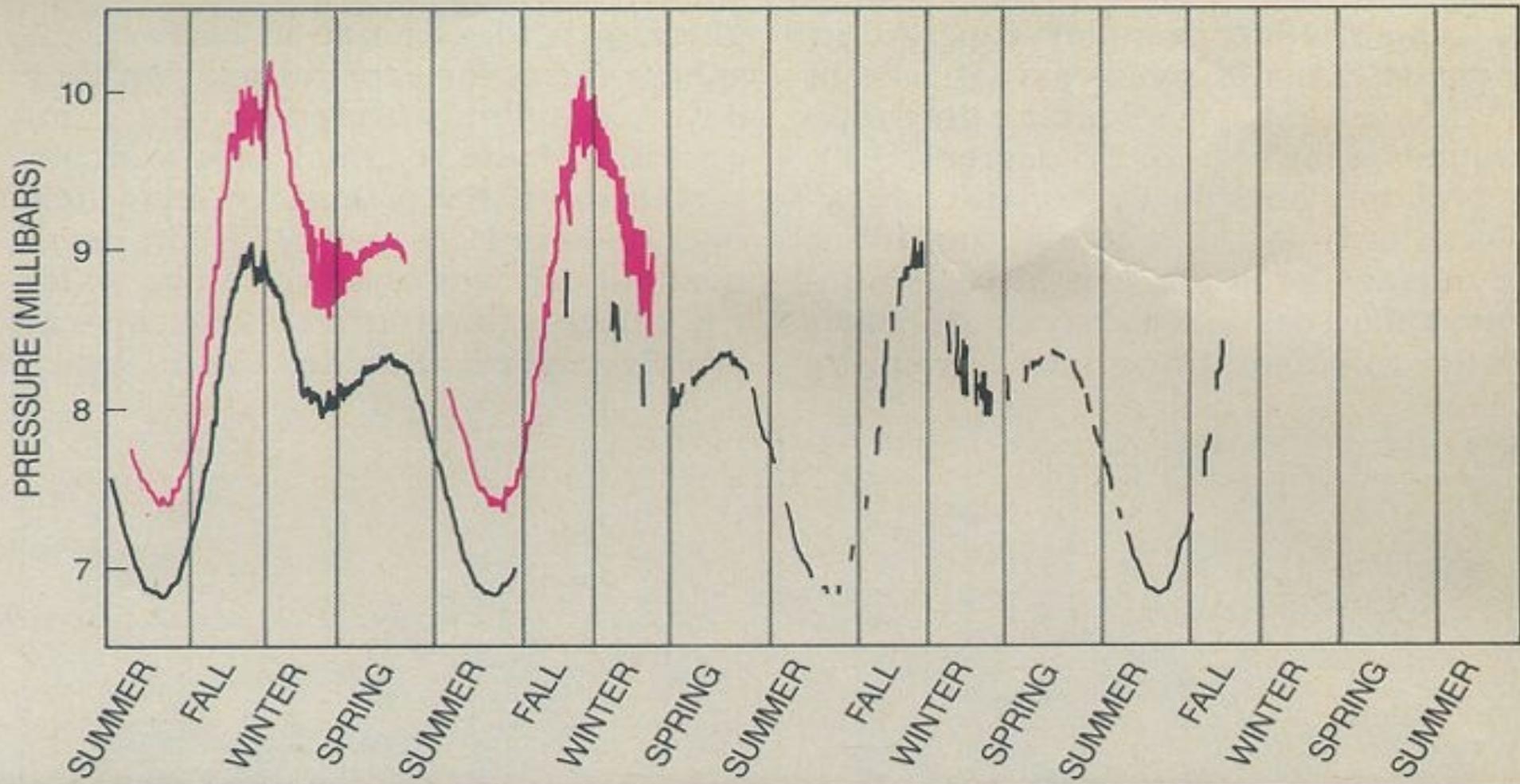




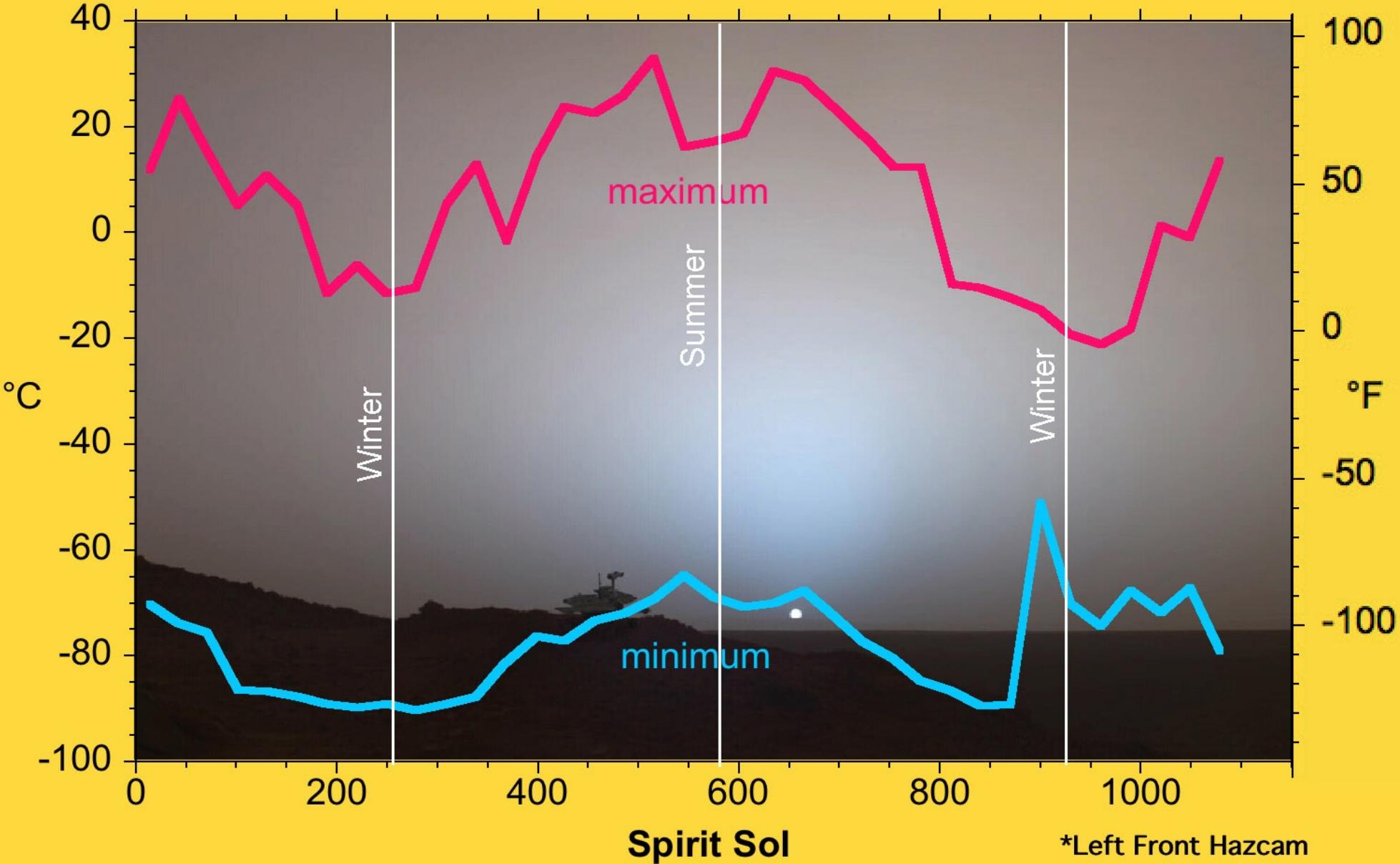
## Composition of the Martian Atmosphere

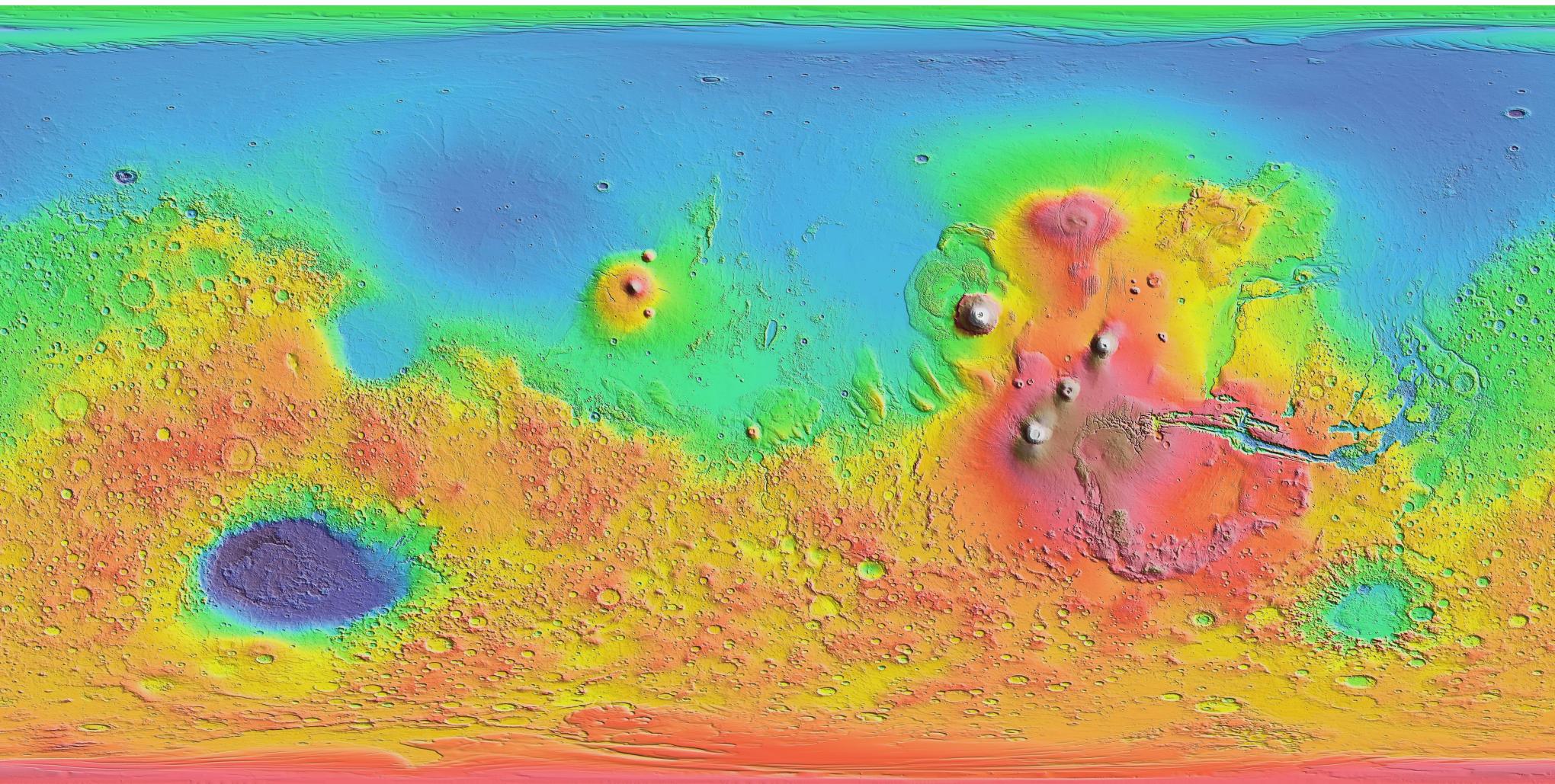
- Carbon Dioxide ( $\text{CO}_2$ ) 95.3%
- Nitrogen ( $\text{N}_2$ ) 2.7%
- Argon (Ar) 1.6%
- Water Vapor ( $\text{H}_2\text{O}$ ) 0.03% - 0.1%  
(saturated in places)
- Oxygen ( $\text{O}_2$ ) 0.13%
- Carbon Monoxide (CO) 0.07%

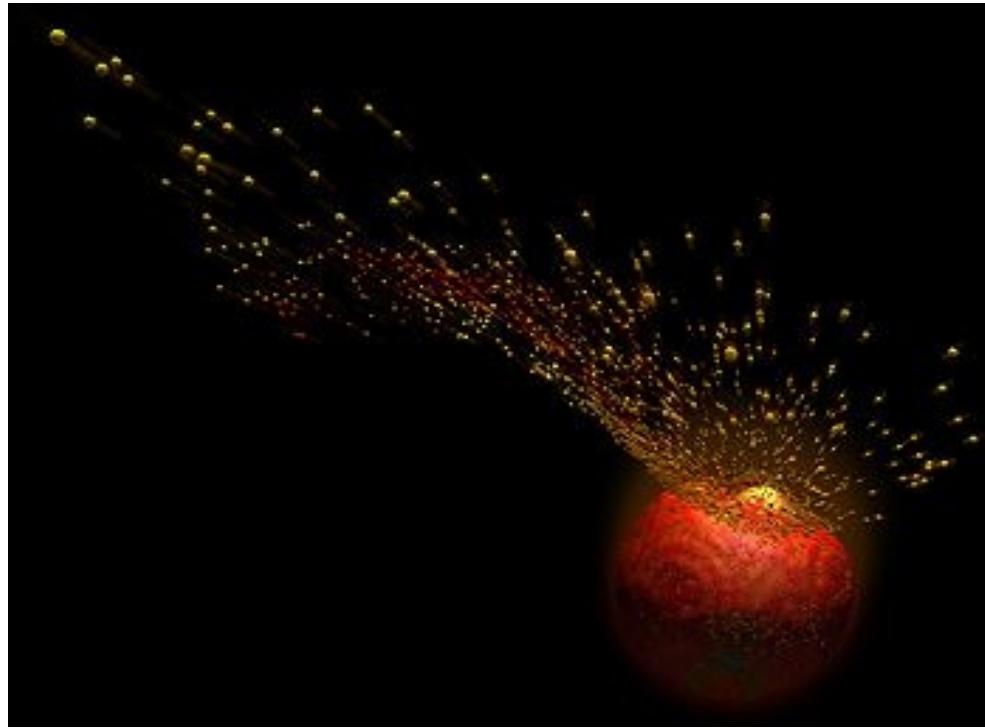
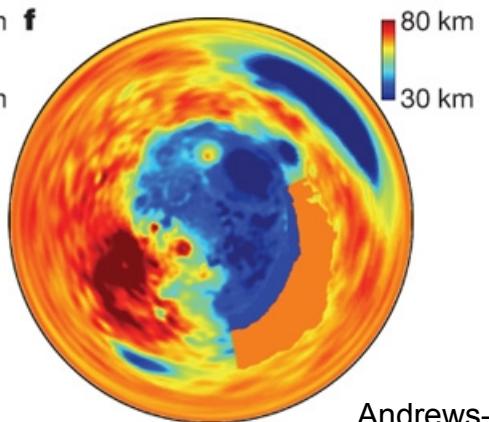
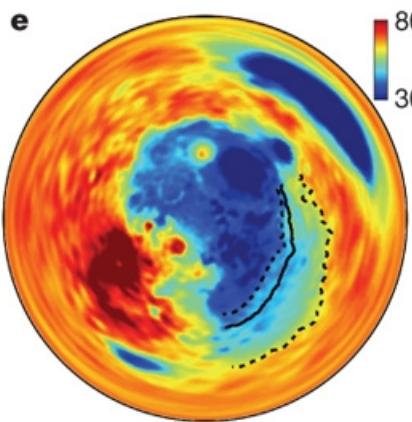
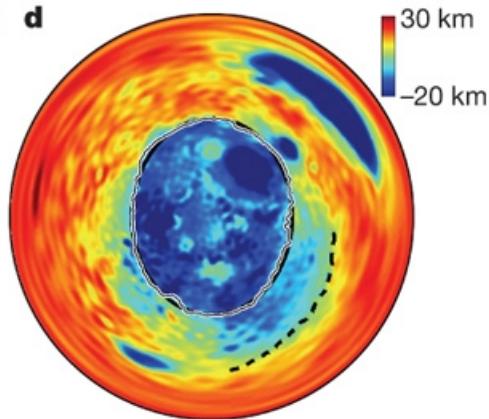
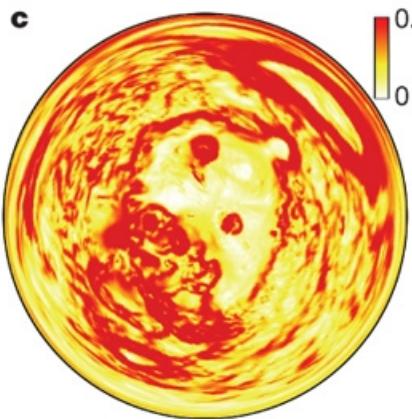
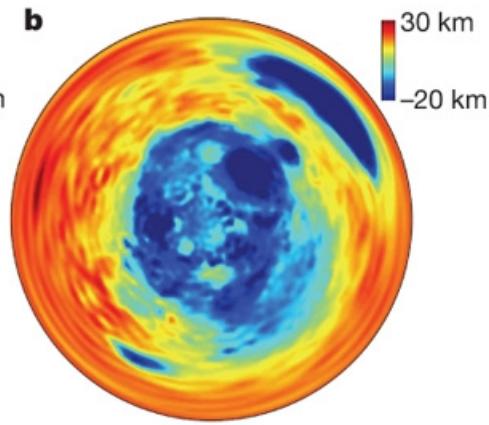
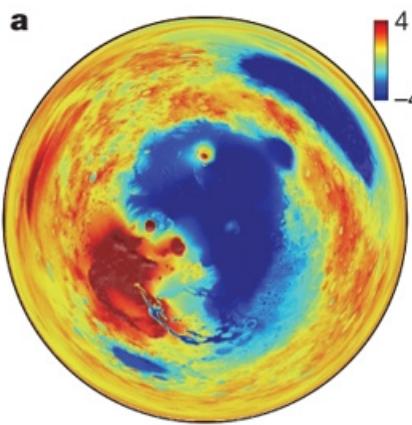
## Pressure at the two Viking lander sites (Earth = 1013)



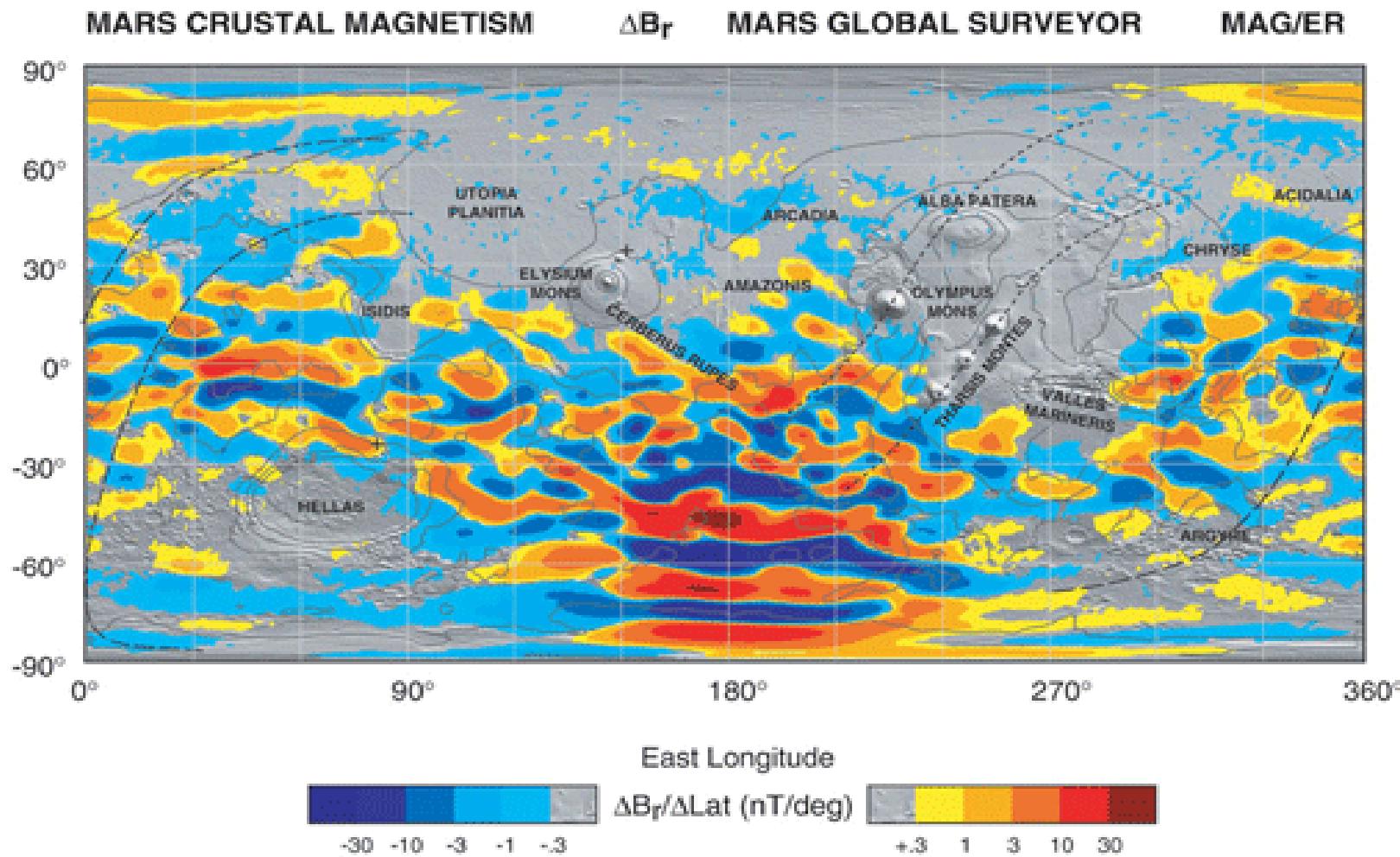
### Spirit - Temperature in Shade\*





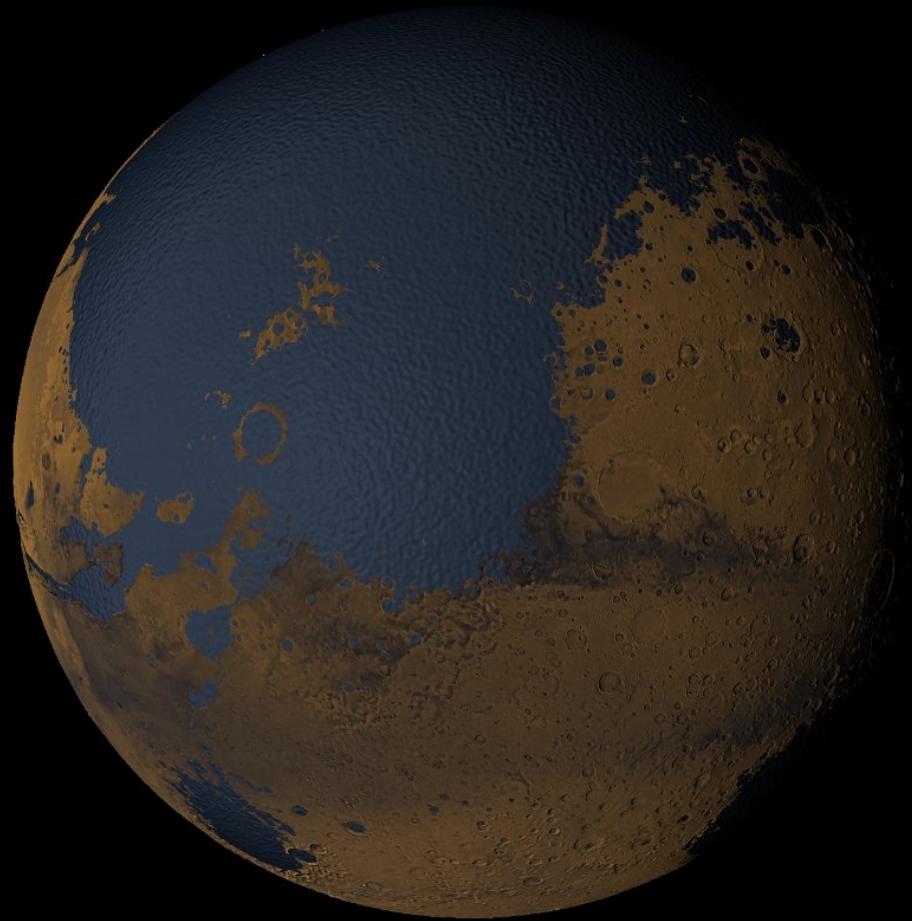


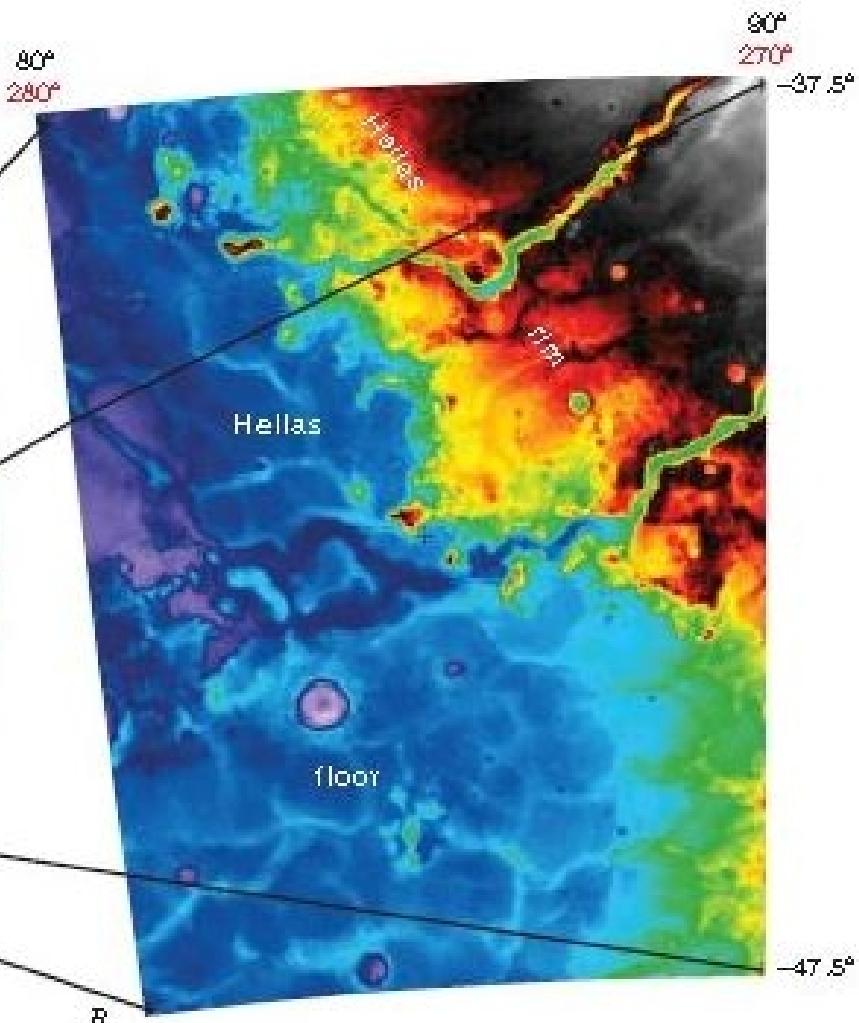
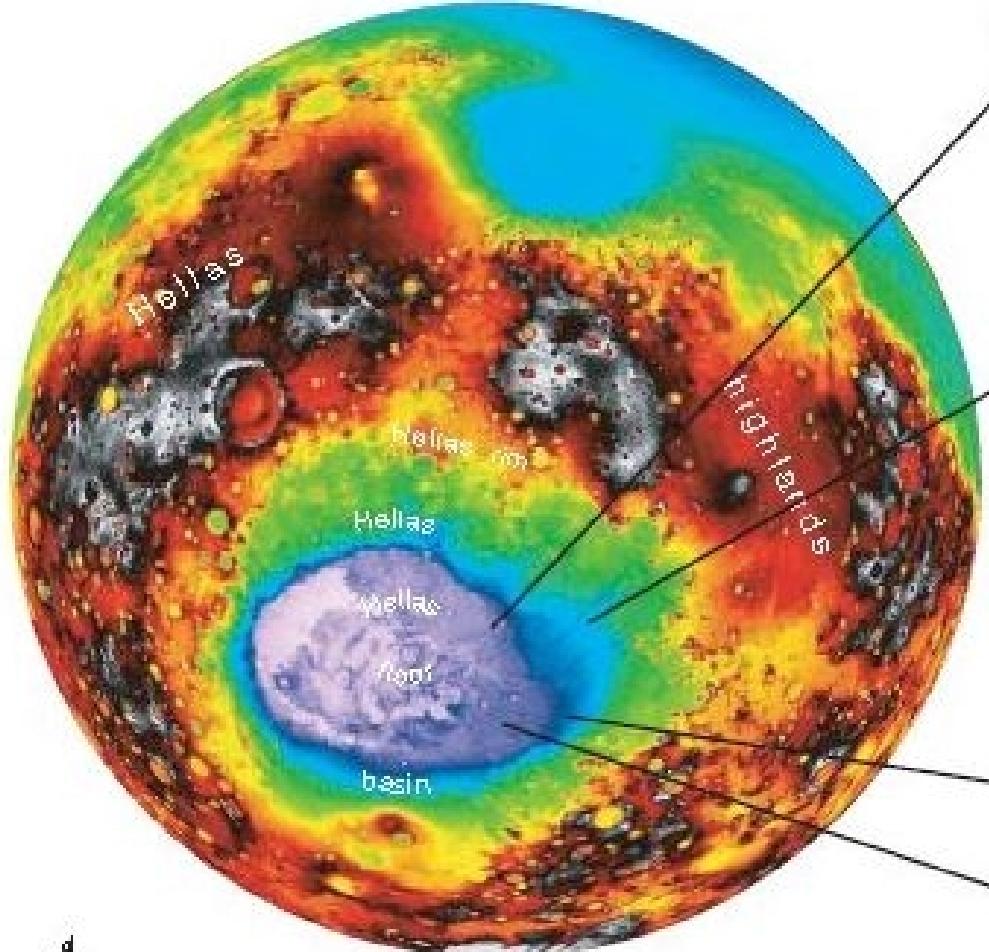
Andrews-Hanna et al. 2008



Connerney, J. E. P. et al., (2005) Proc. Natl. Acad. Sci. USA, 102, No. 42, 14970-14975.

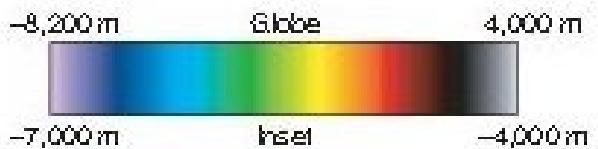
R1999\_1pub

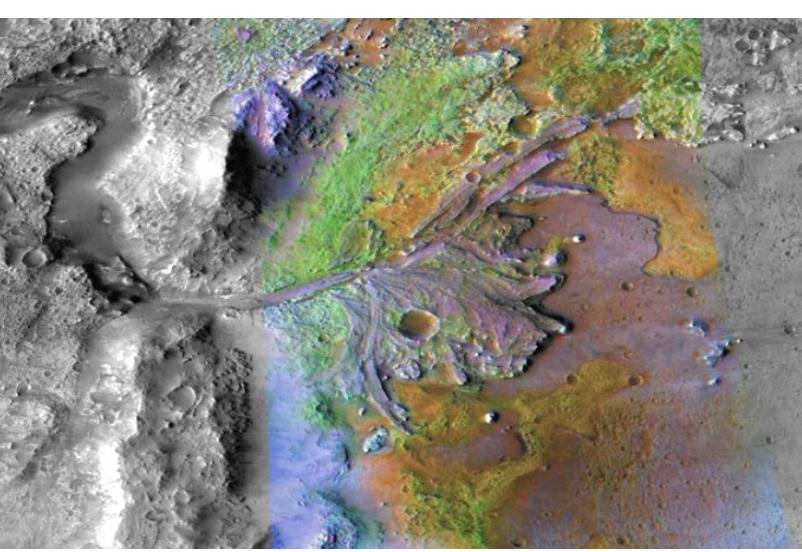
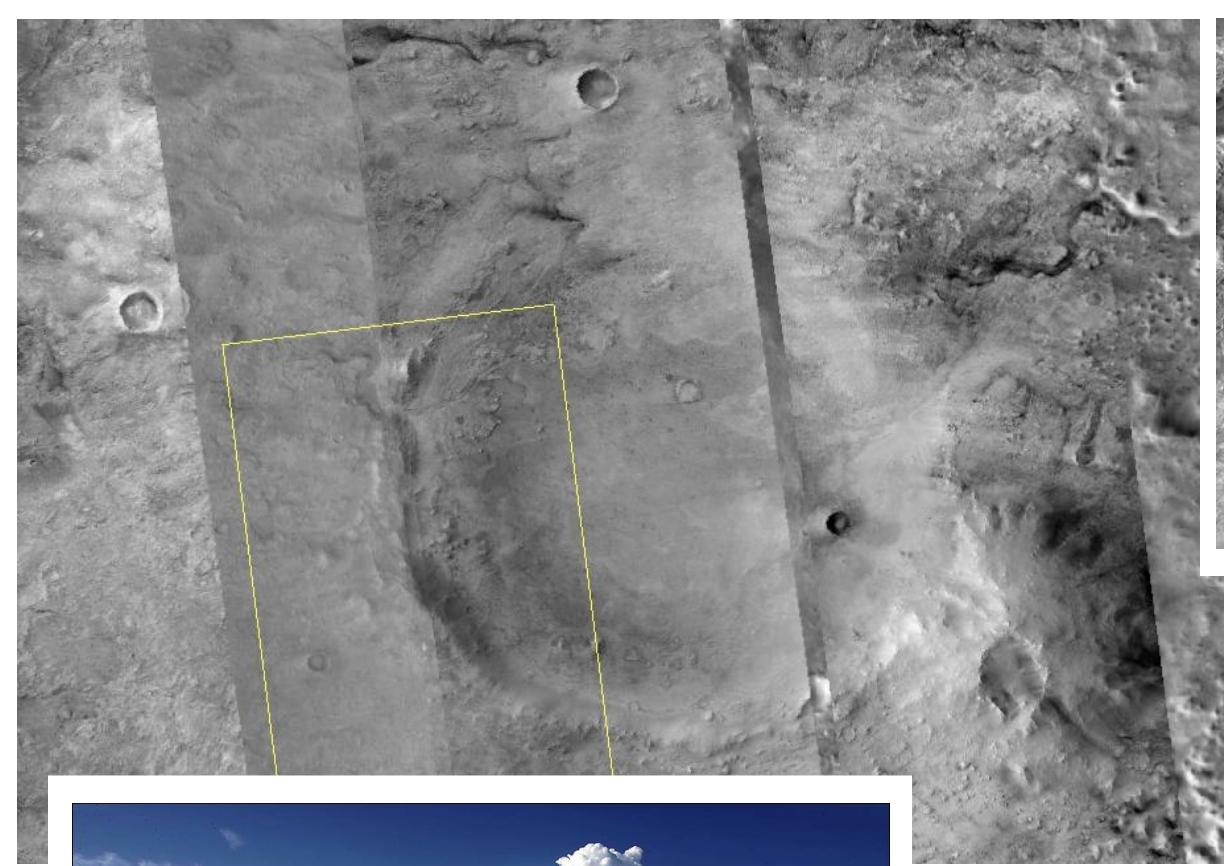


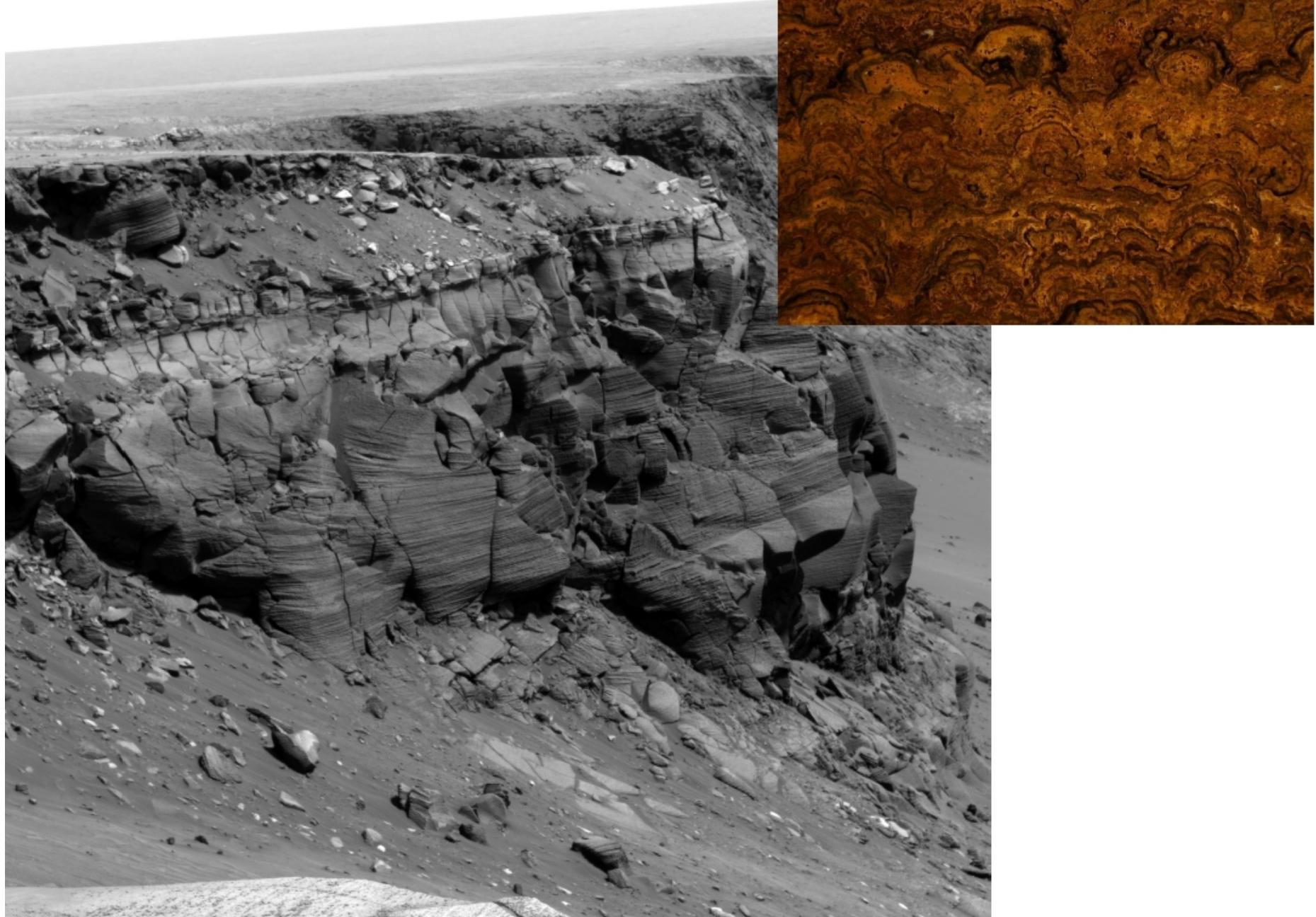


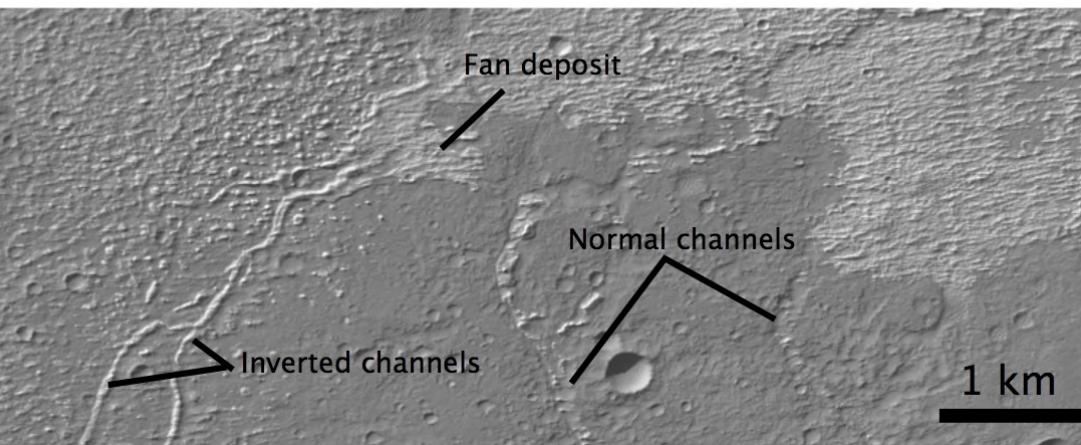
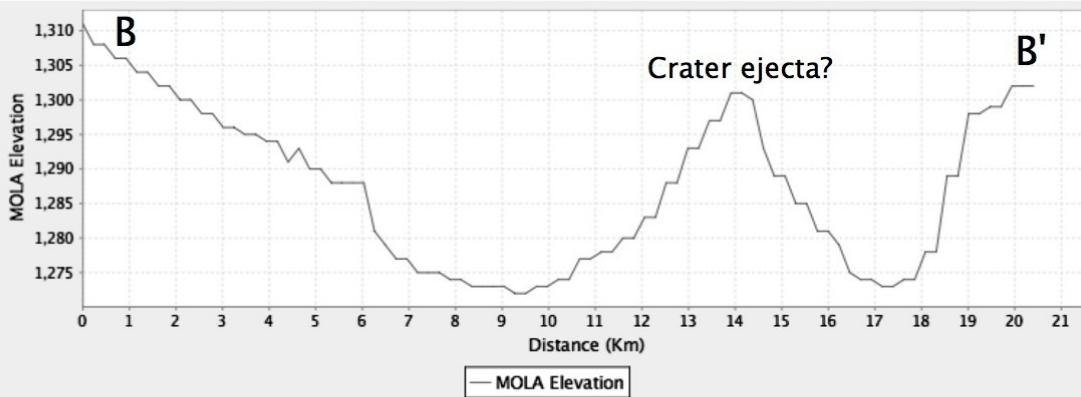
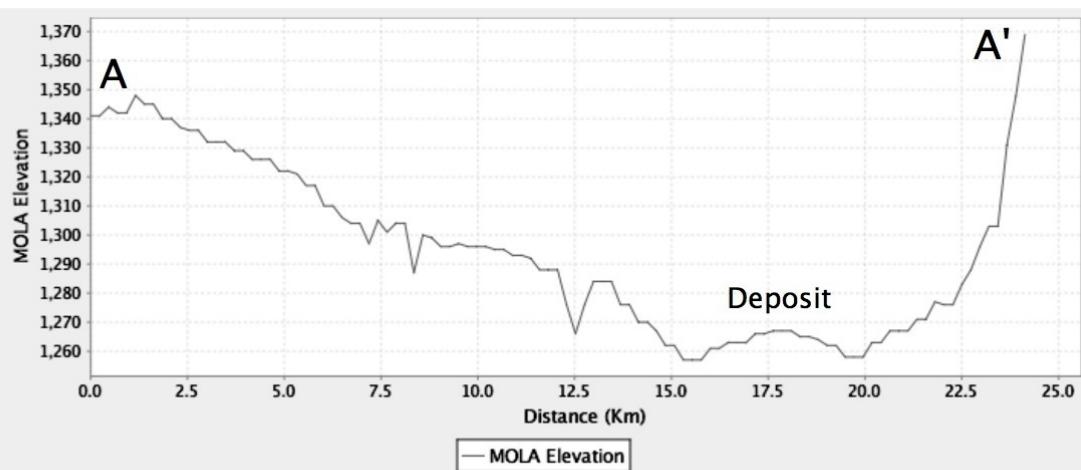
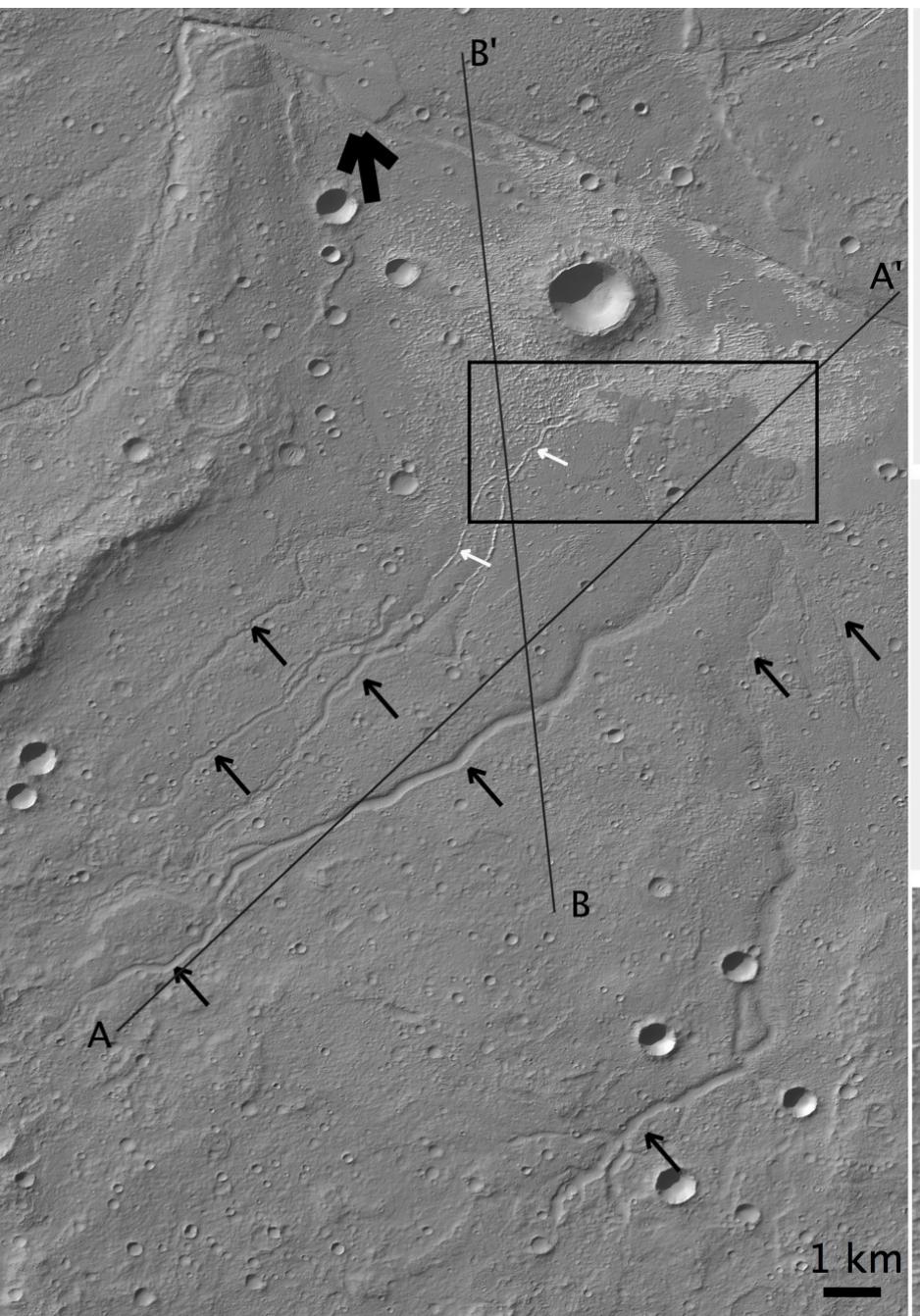
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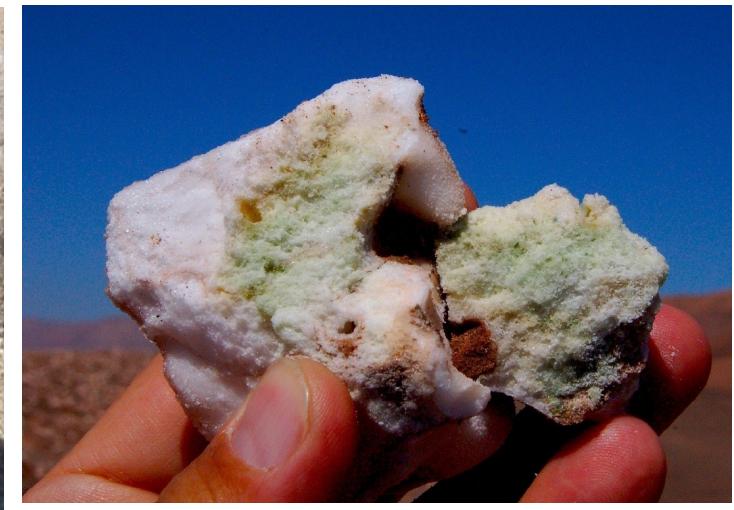
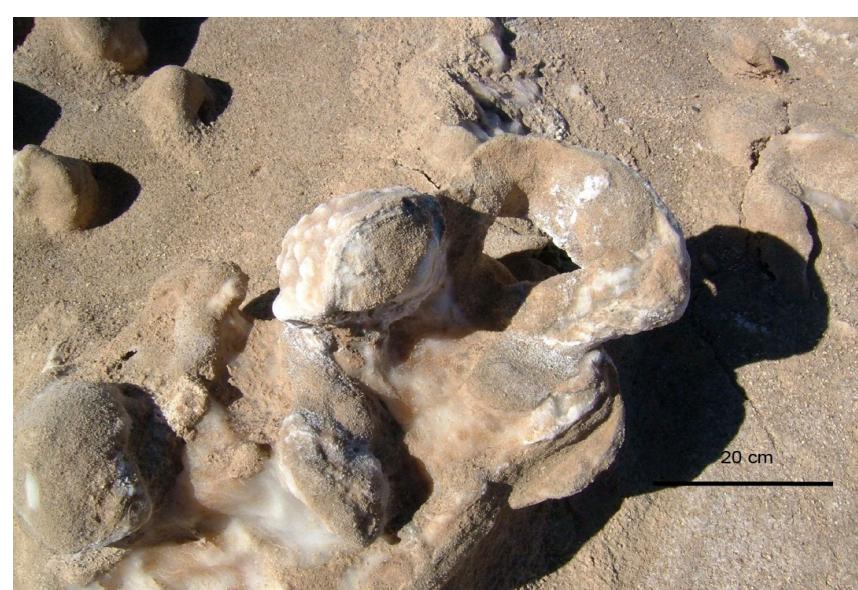
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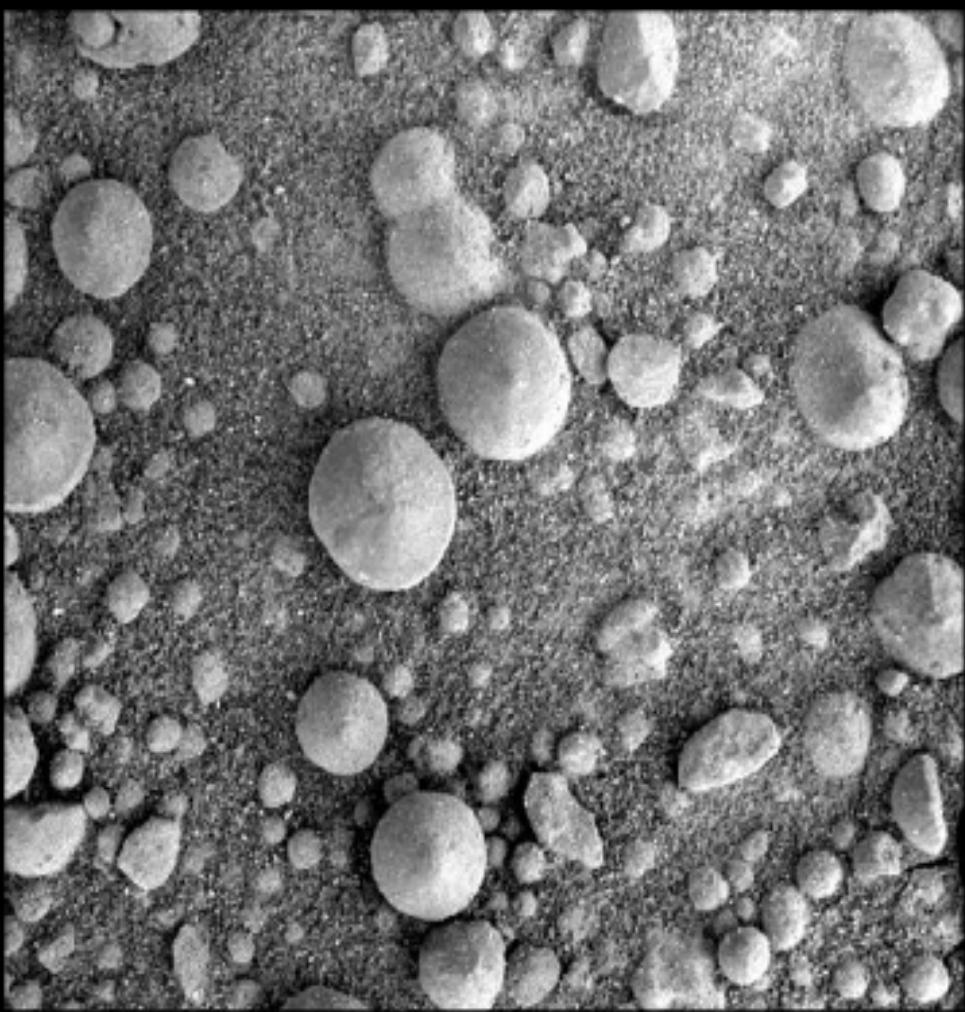




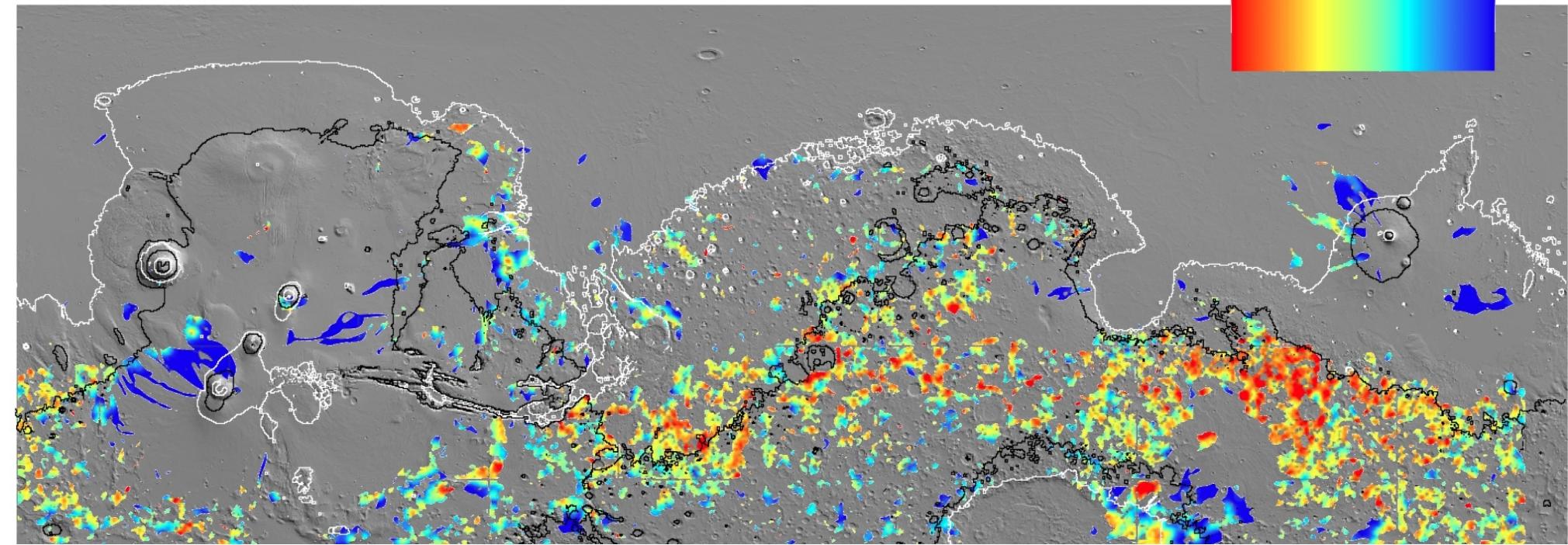


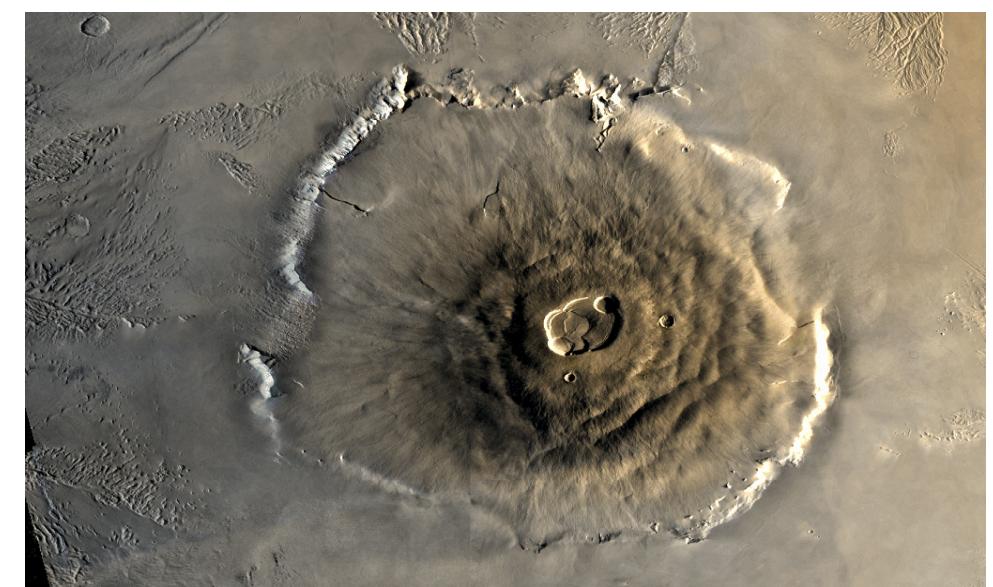
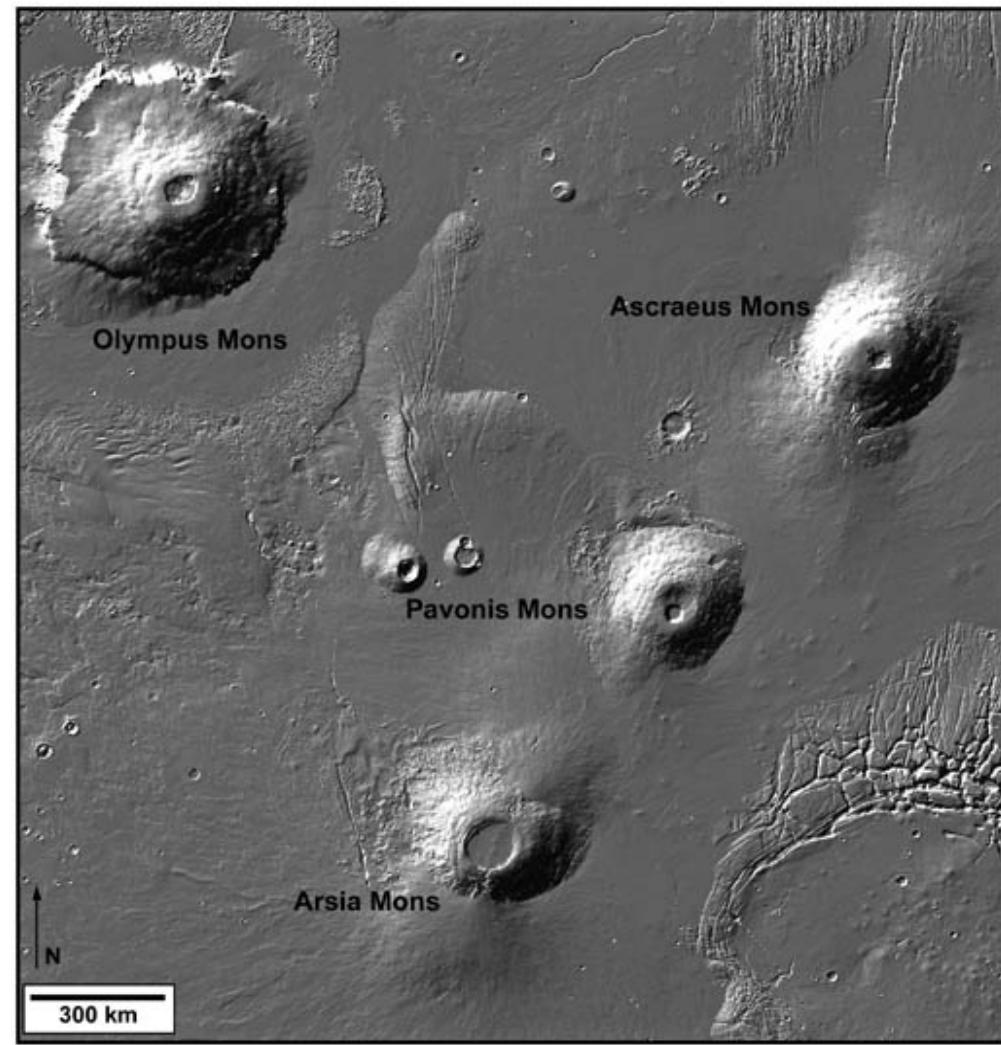
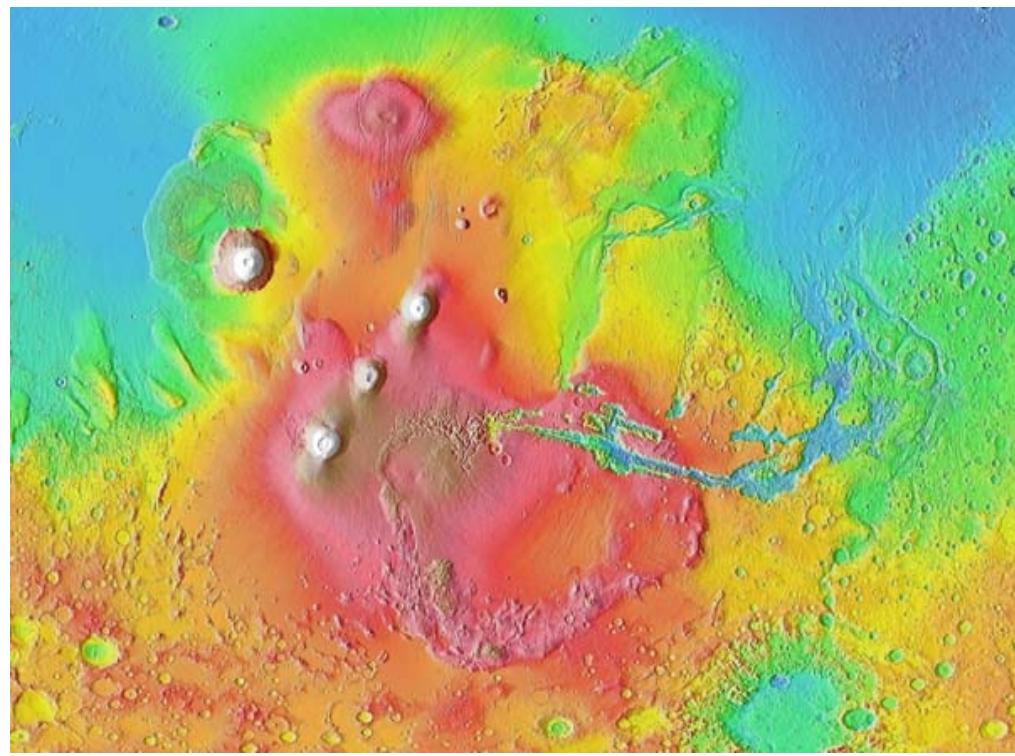


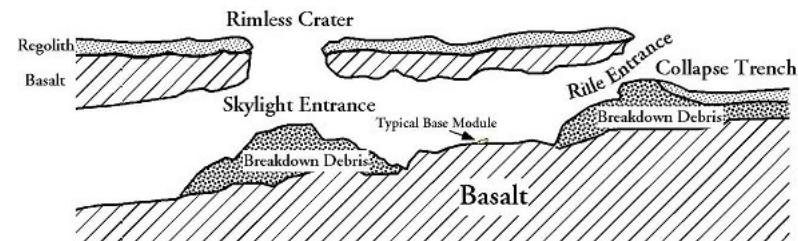
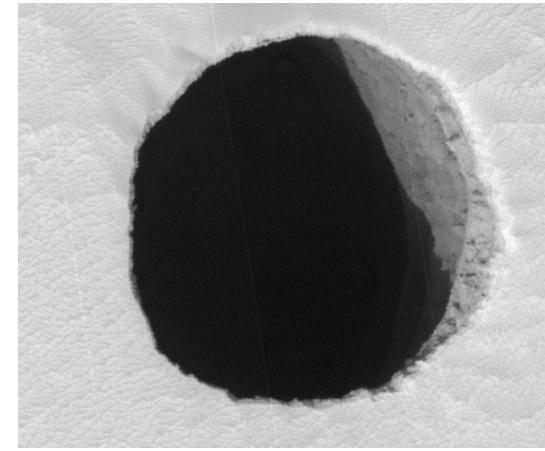
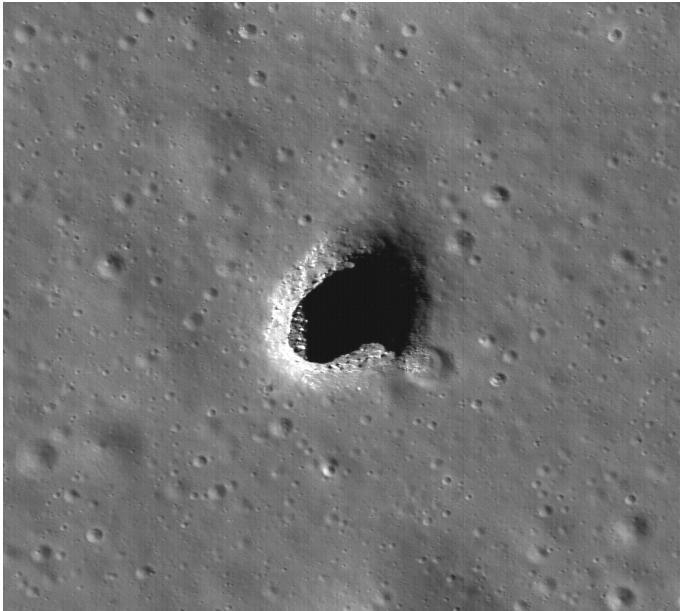
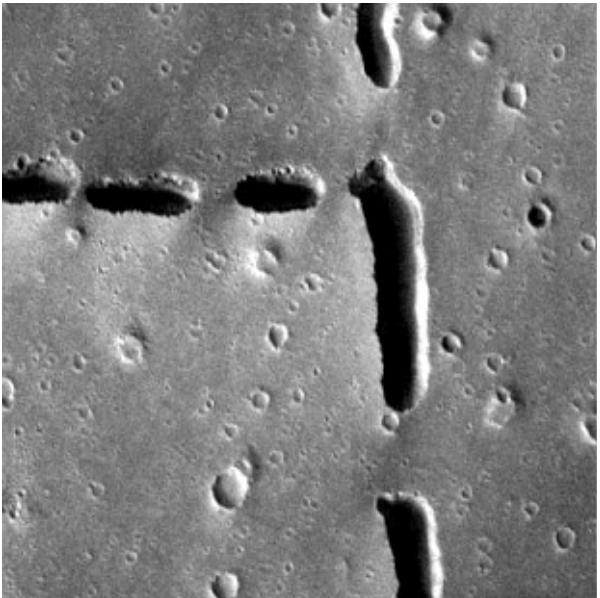




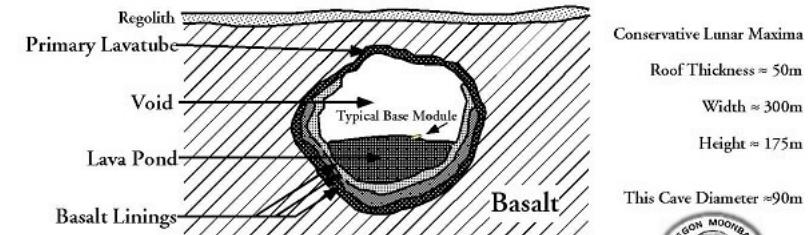








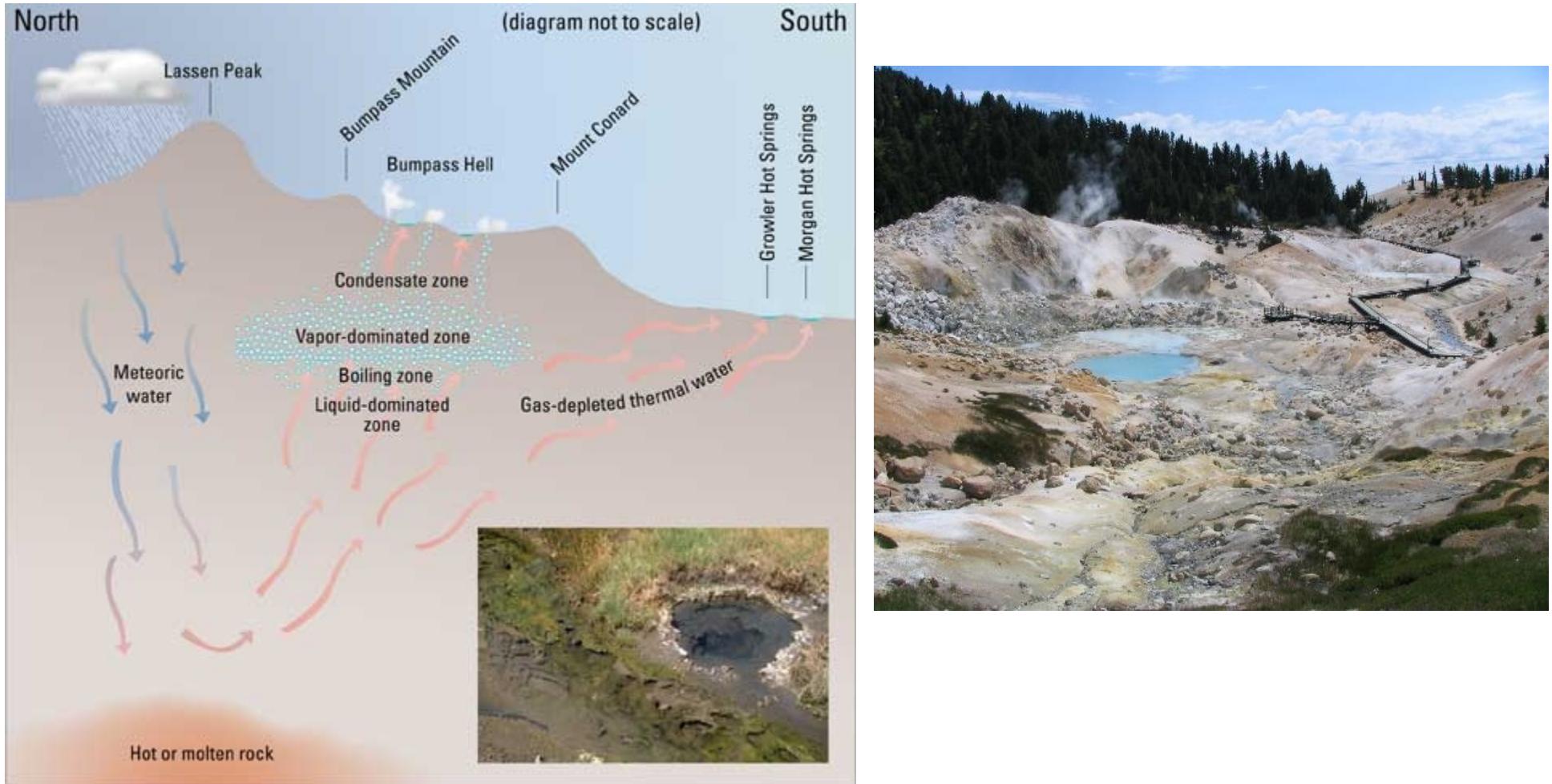
## Lavatube Longitudinal Cross-Section



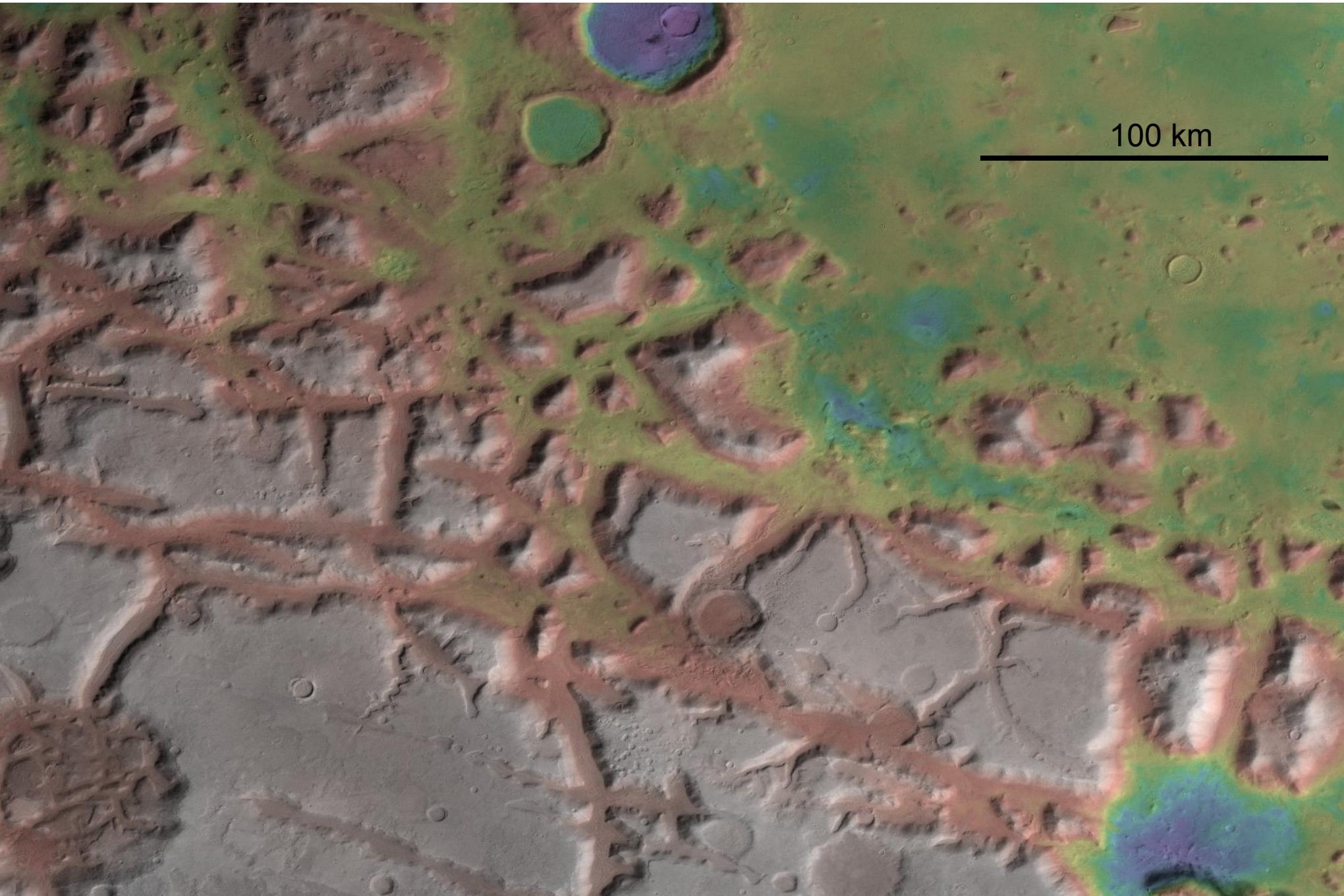
## Lavatube Transverse Cross-Section



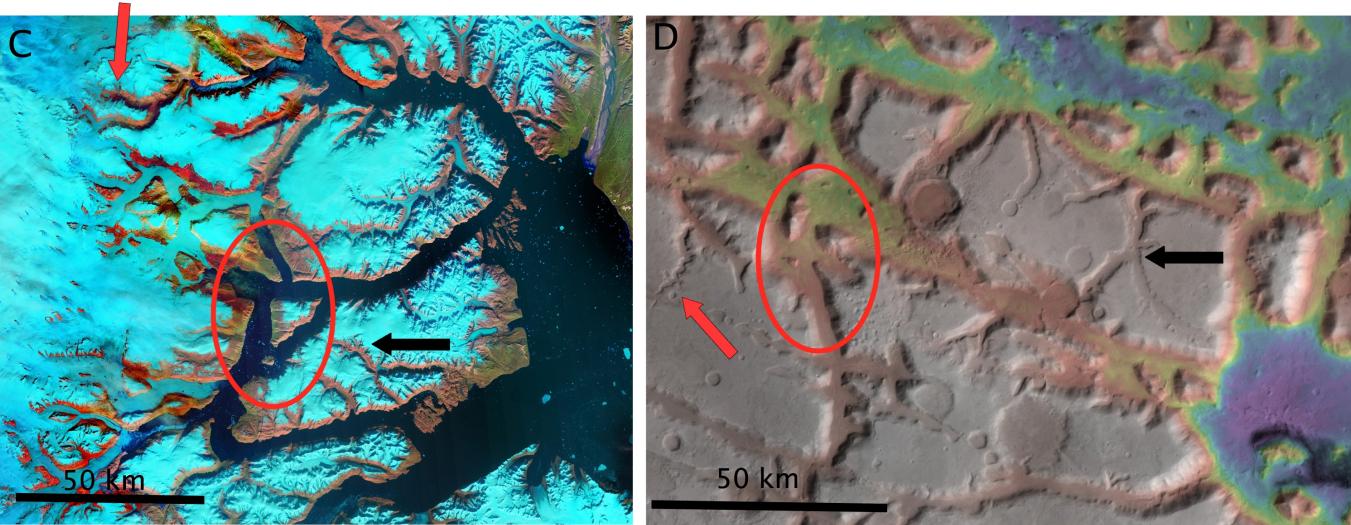
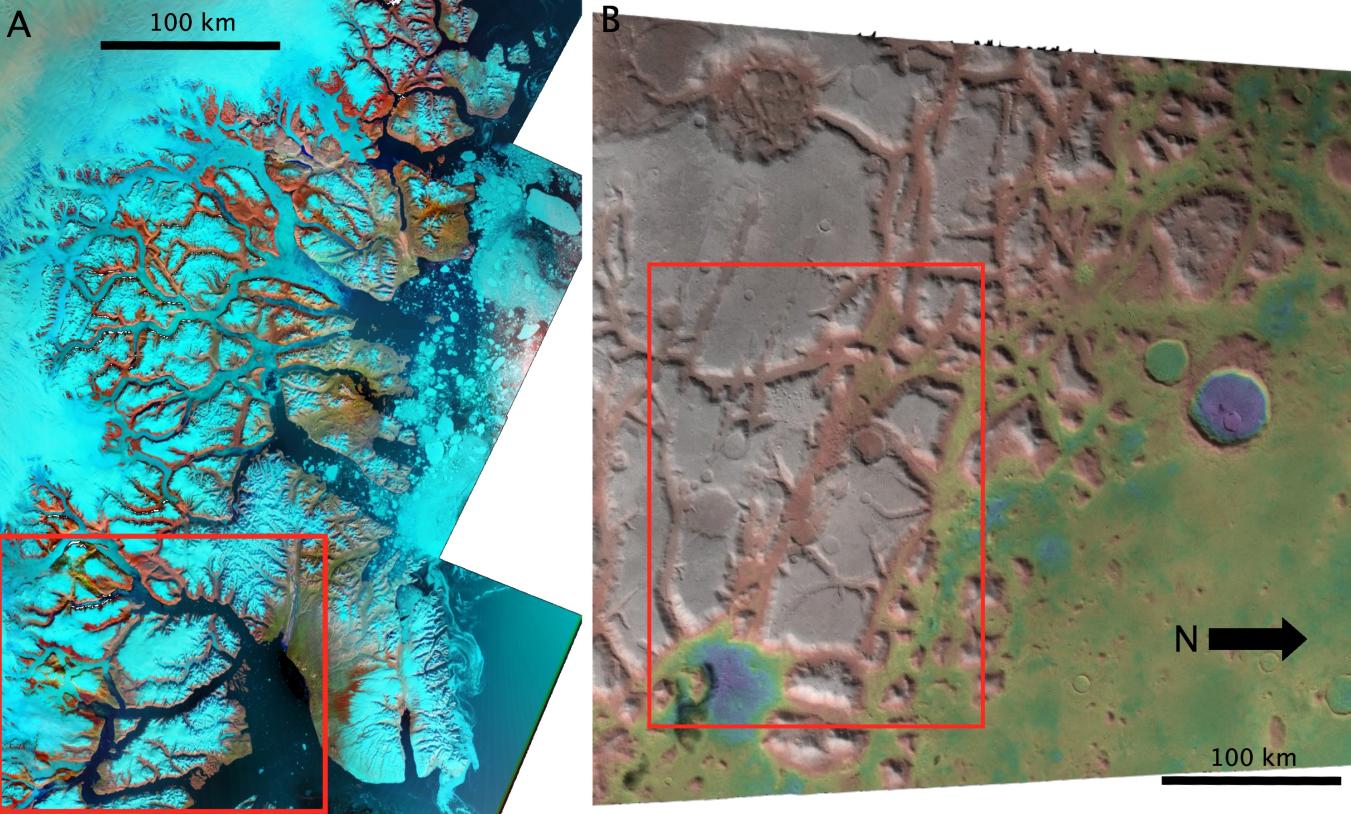
©1992 by Oregon L5 Society, Inc.  
Original Drawing by P. Douglas Reeder  
Chart by P. Douglas Reeder & Bryce Walden

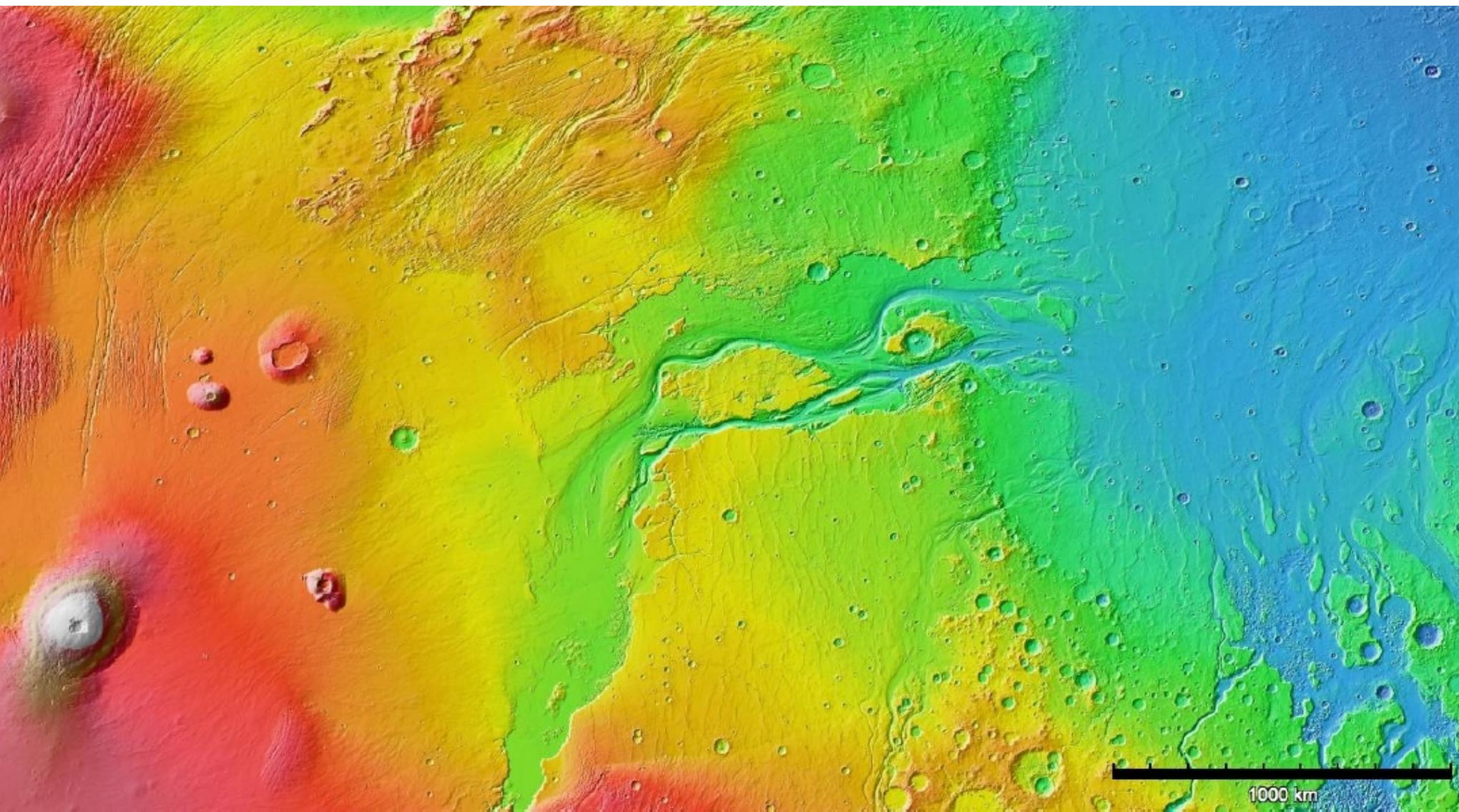




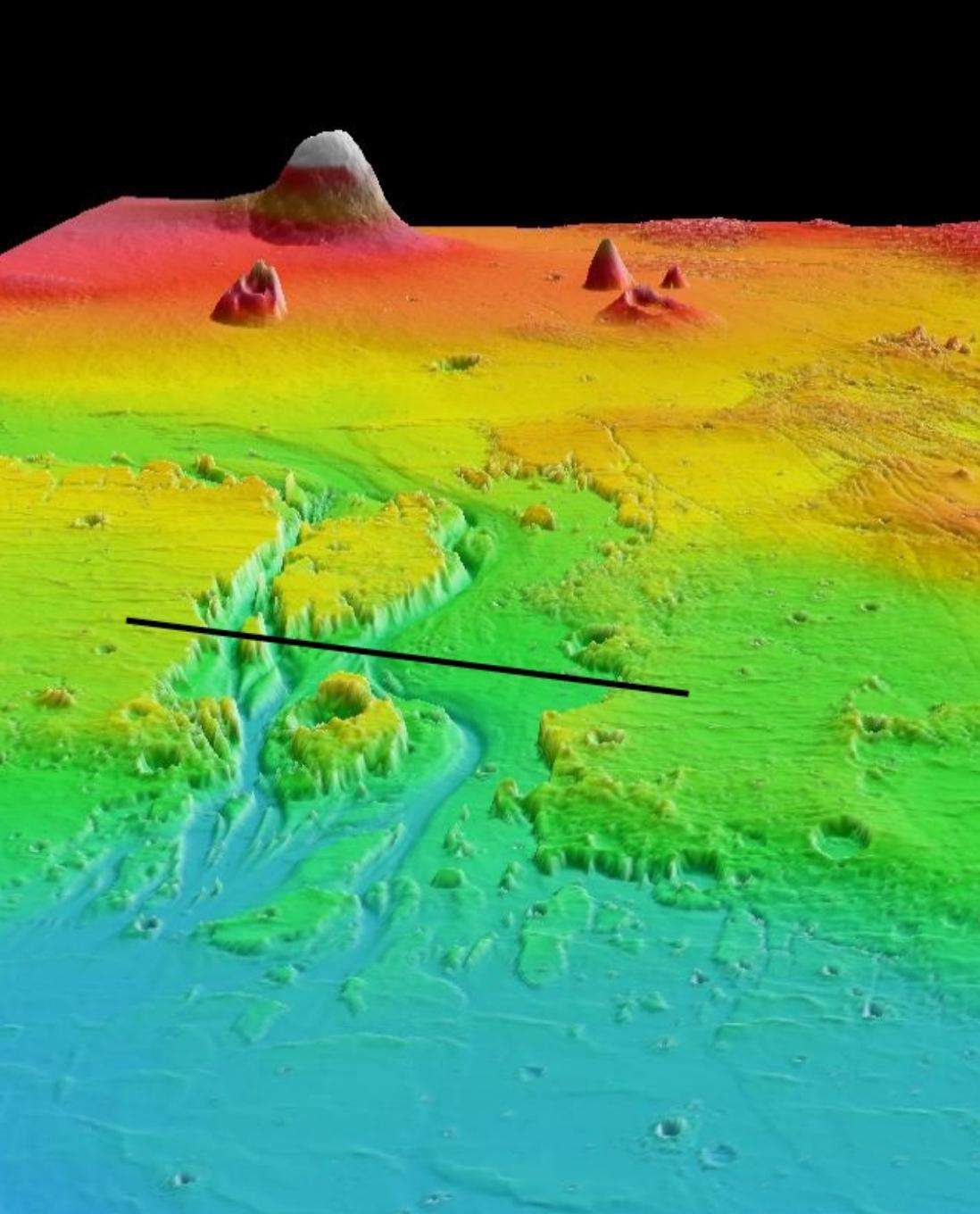
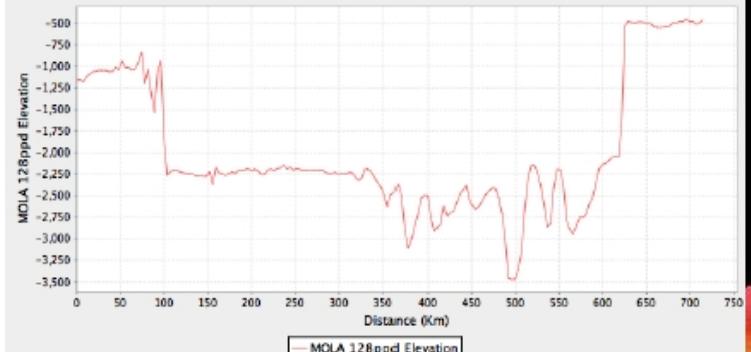


100 km





1000 km



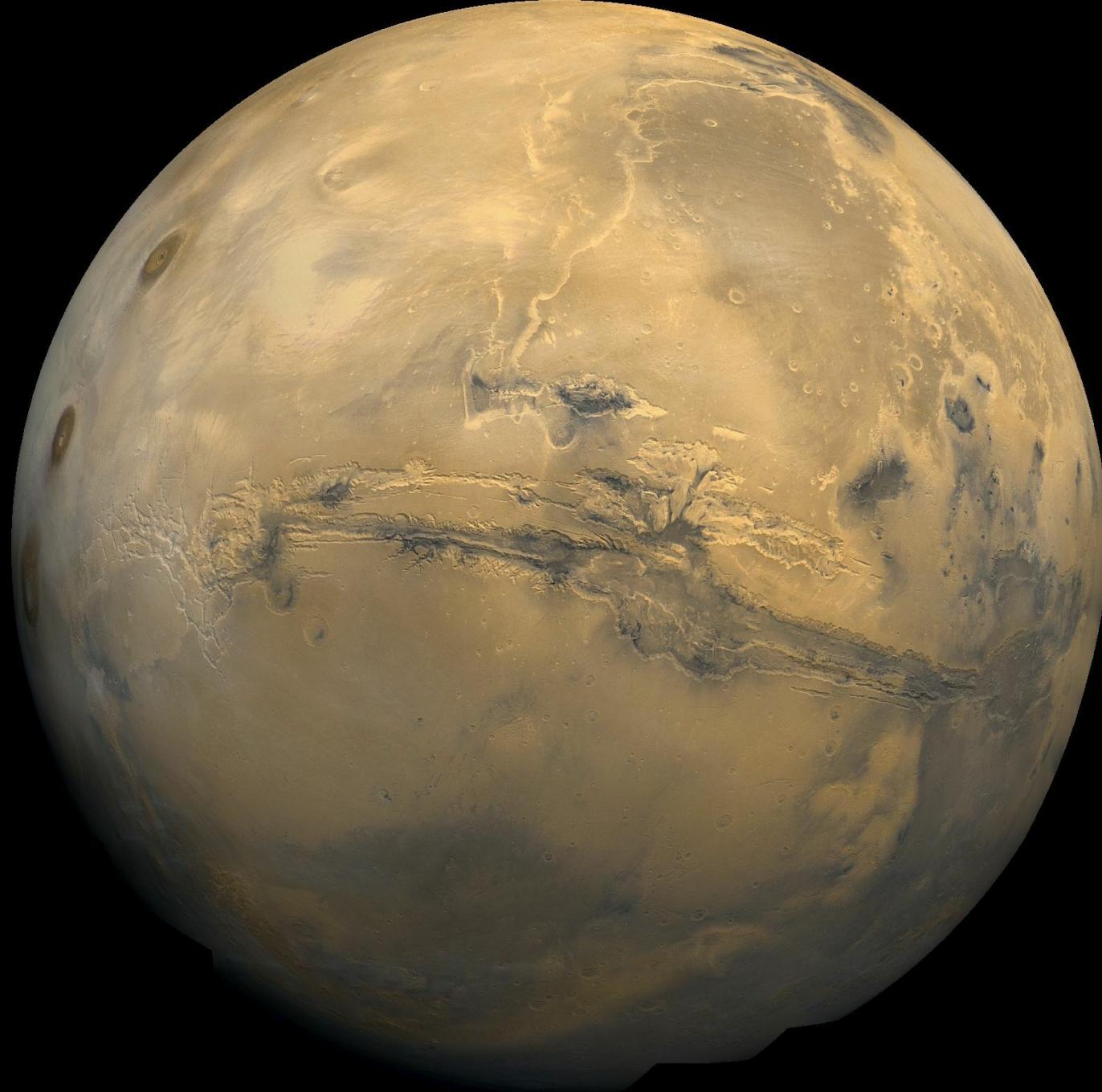


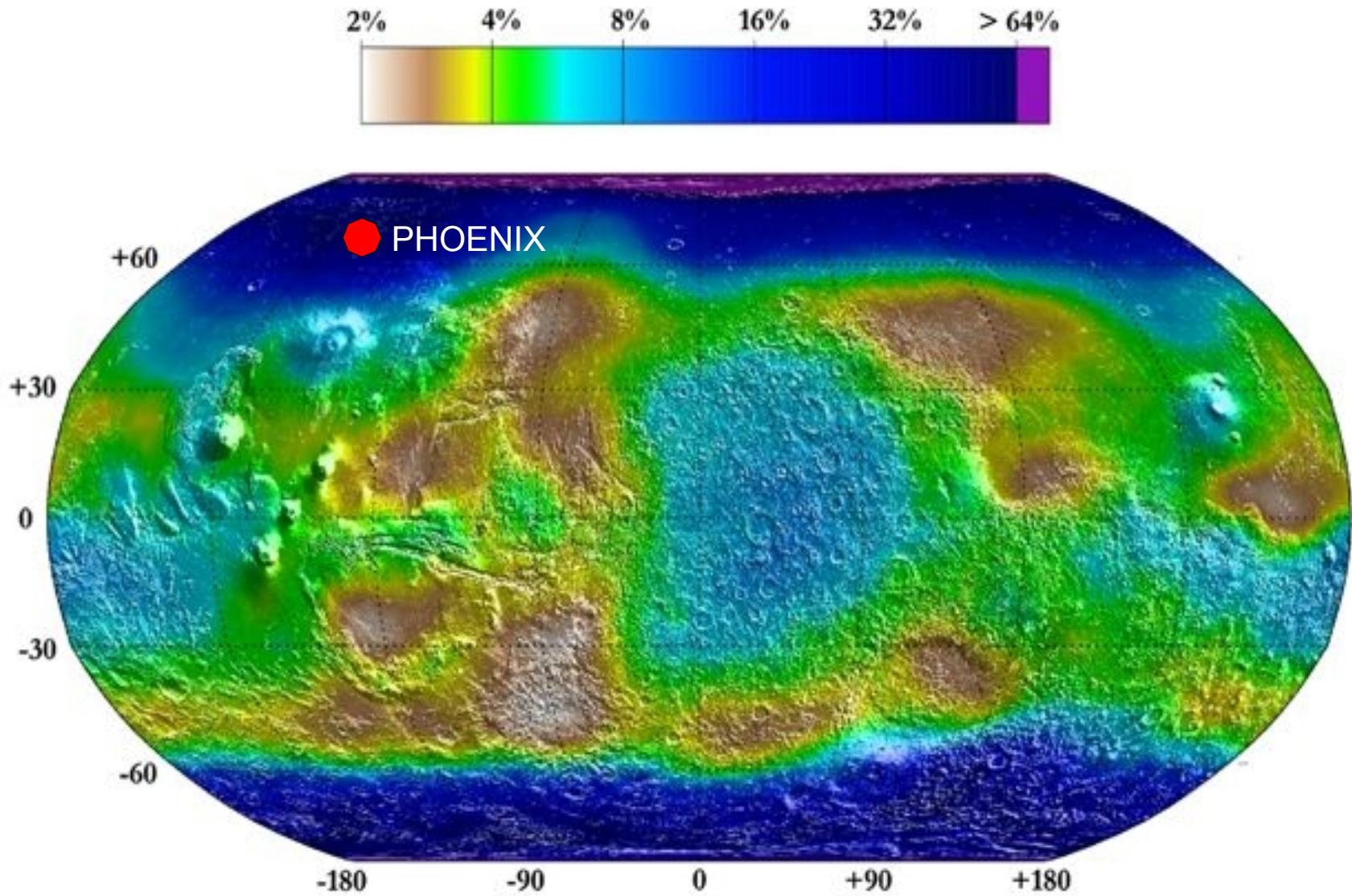
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[www.CartoonStock.com](http://www.CartoonStock.com)



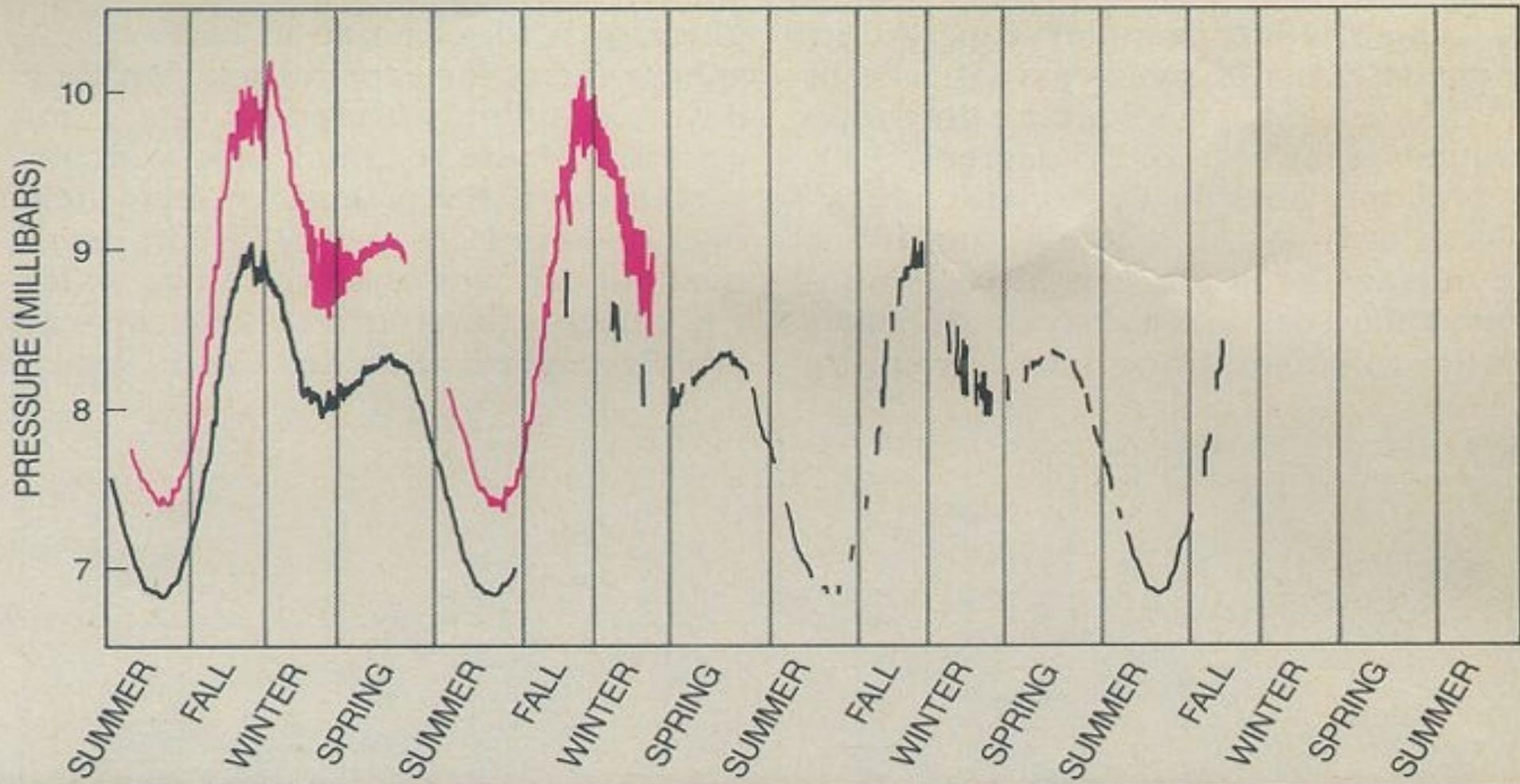
search ID: rron717

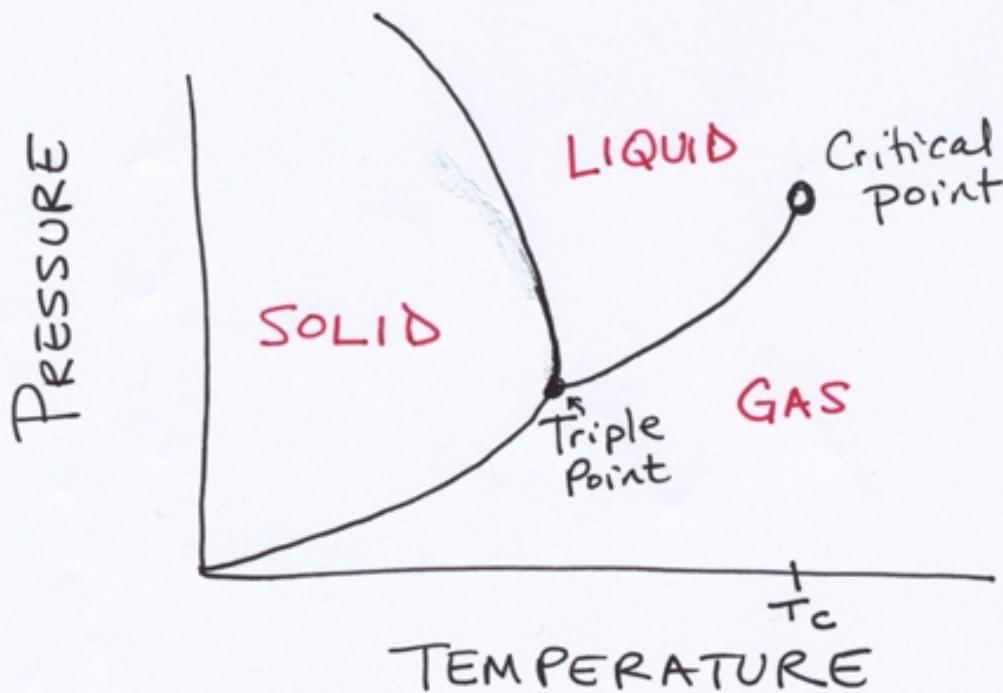
"I'm a firm believer in 'live fast, die young, leave a  
good-lookin' corpse'."

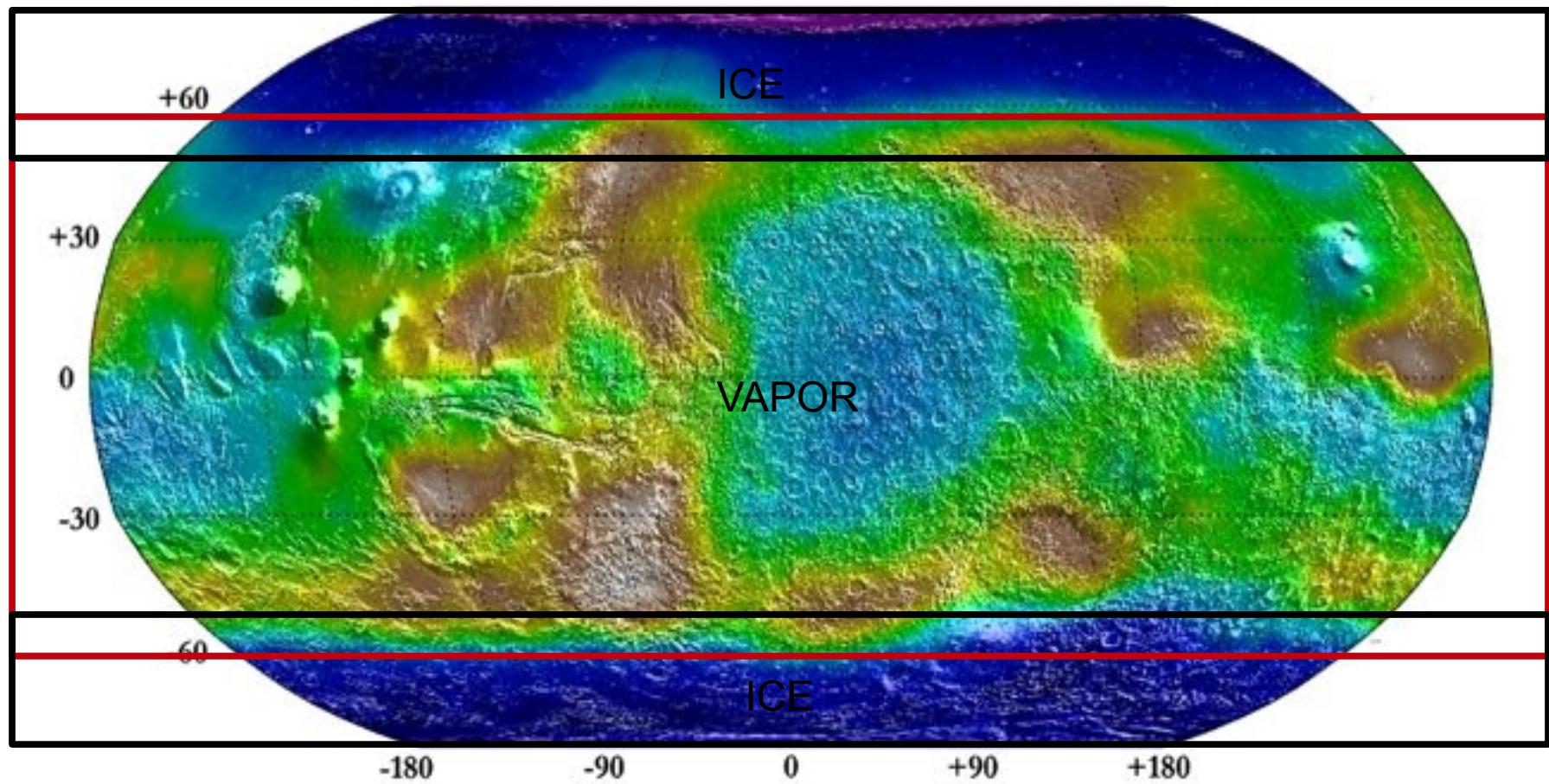
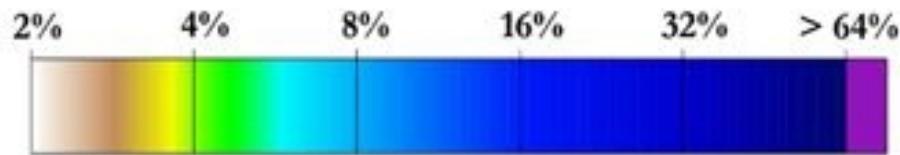


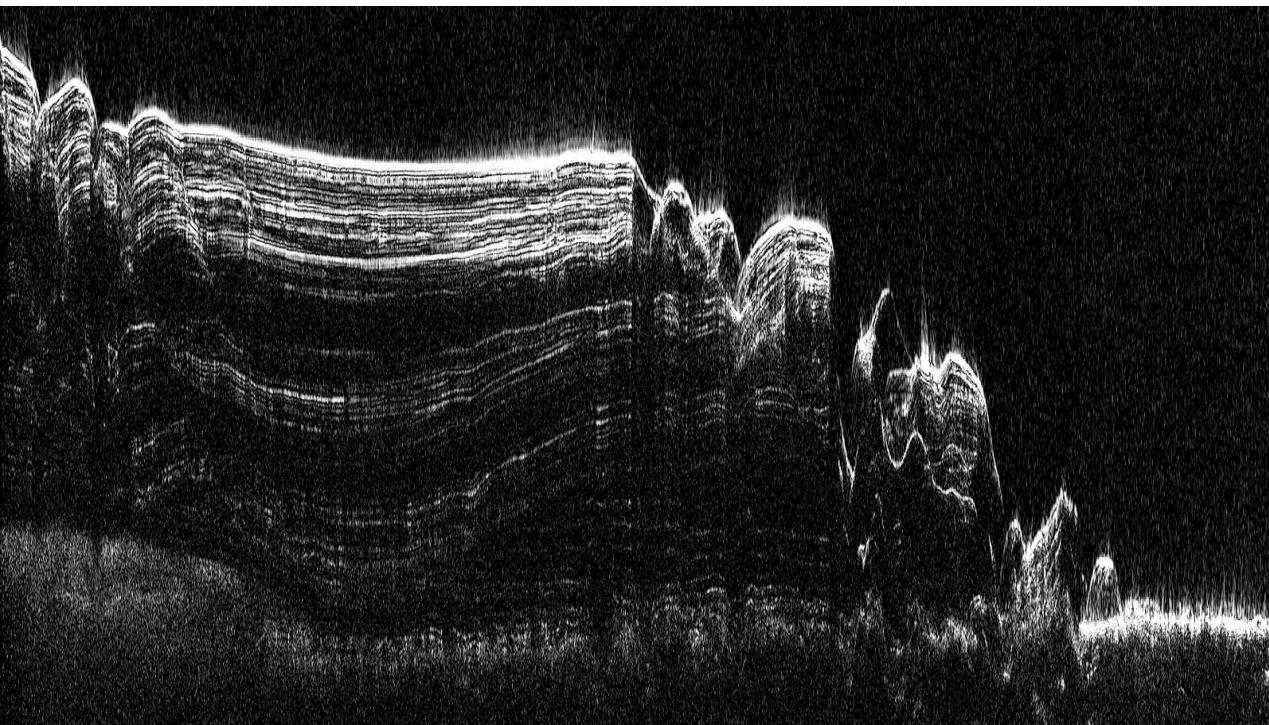
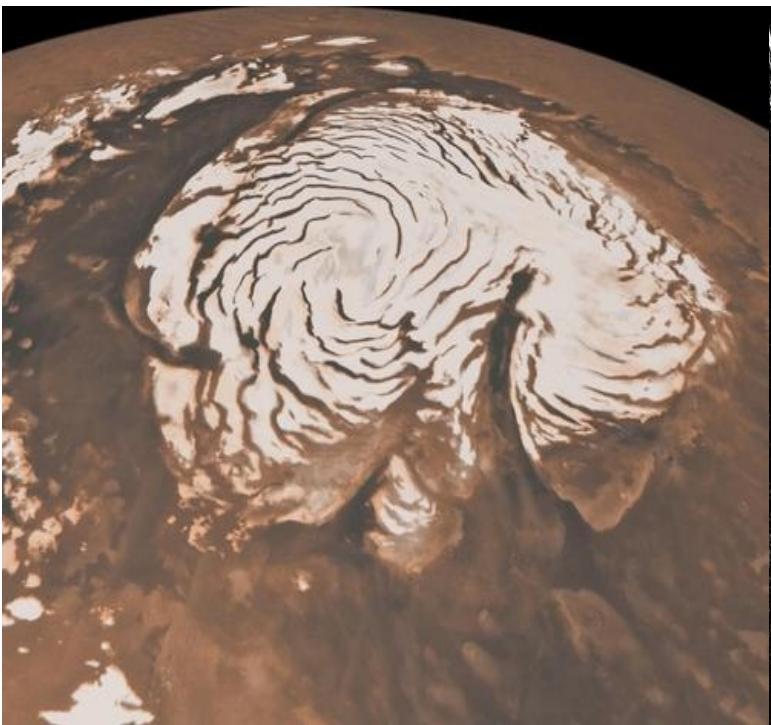


## Pressure at the two Viking lander sites (Earth = 1013)











"Holy Cow" Mosaic

Credit: Marco Di Lorenzo, Kenneth Kremer

NASA/JPL/UA/Max Planck Institute/Spaceflight

**High Sun  
Warm Summer  
High Humidity**

## High Obliquity

**Low Sun  
Cool Summer  
Low Humidity**

## Low Obliquity

